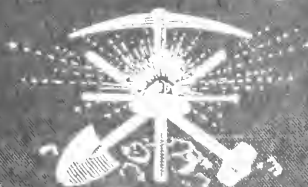


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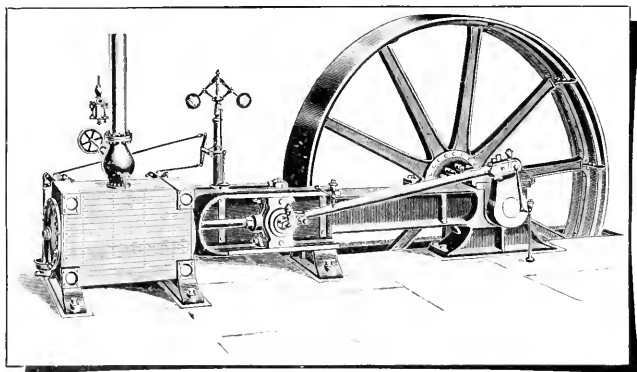
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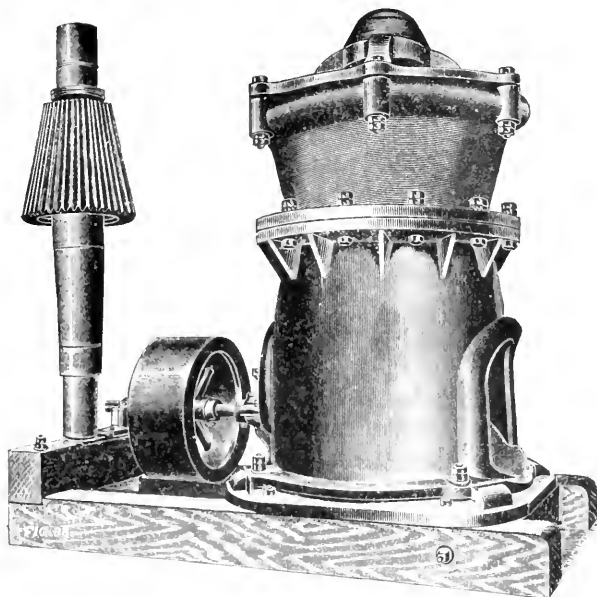
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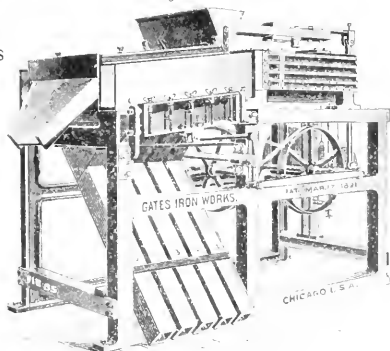
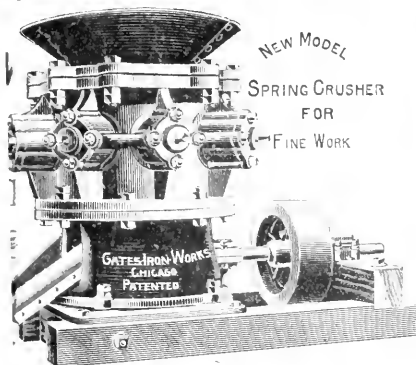
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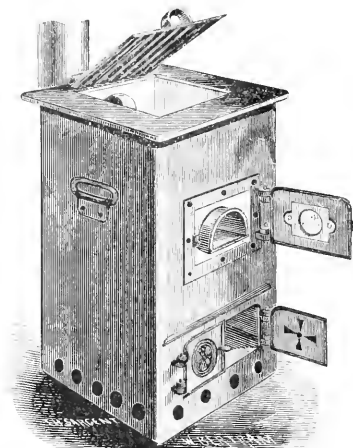
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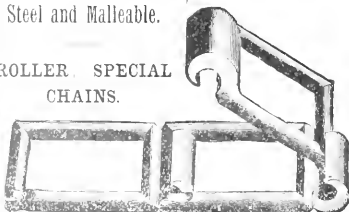
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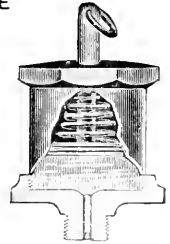
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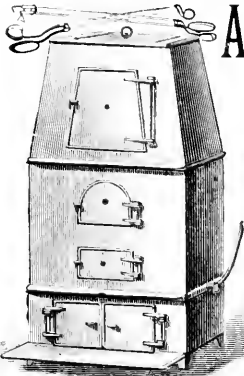
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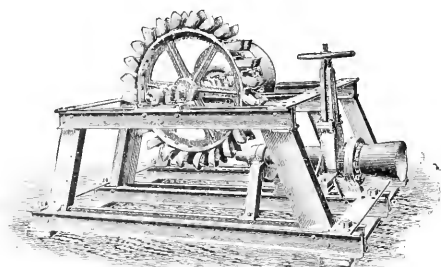
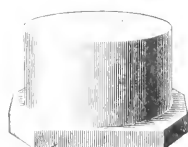
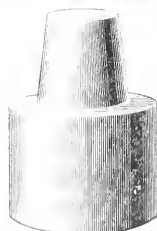
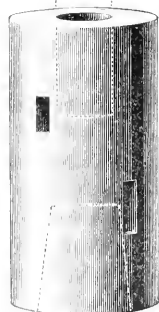
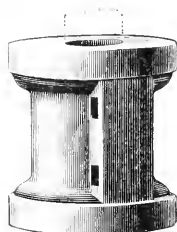
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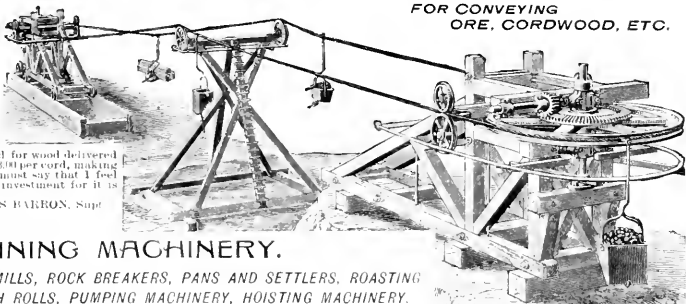
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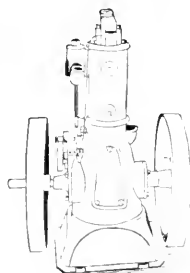
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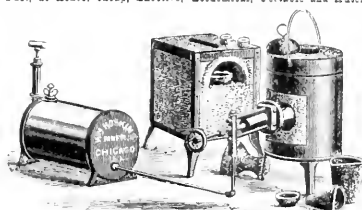
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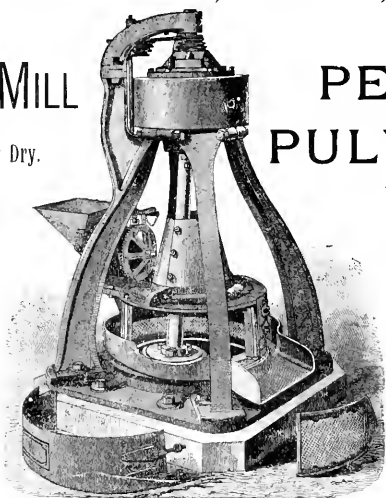
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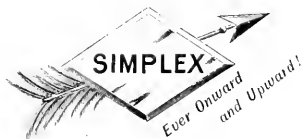
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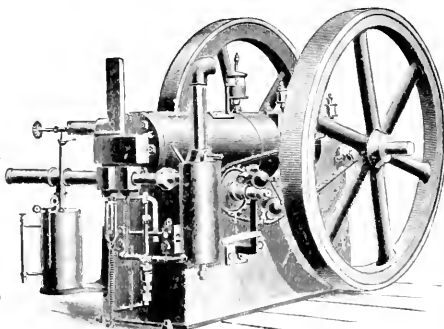
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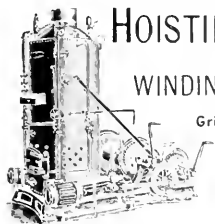
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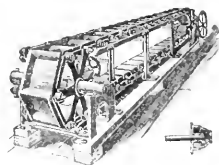
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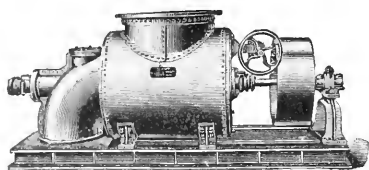
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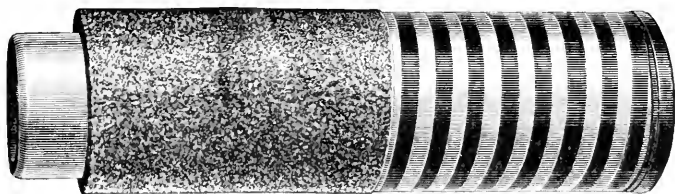
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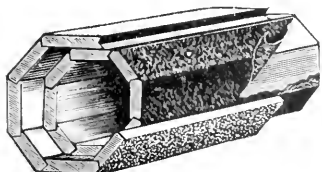
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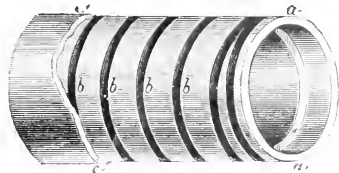
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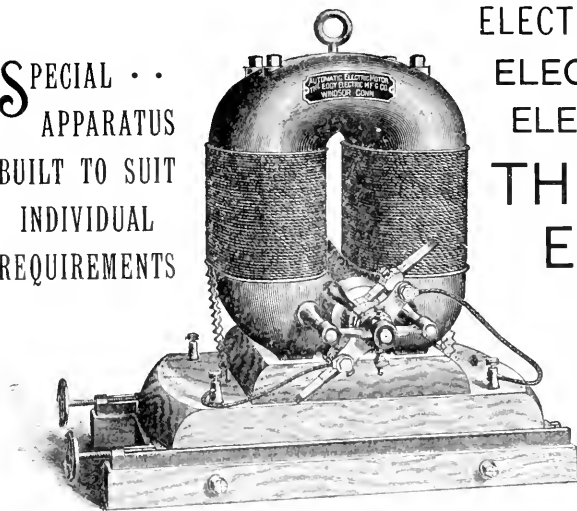
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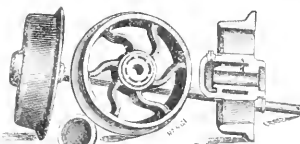
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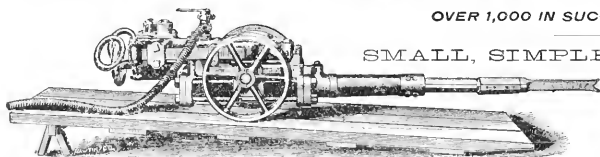
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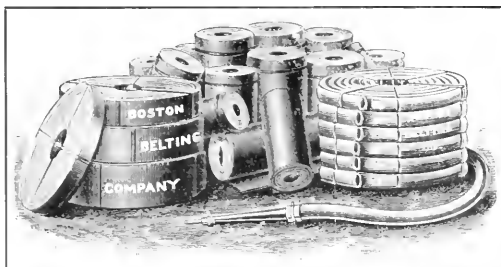
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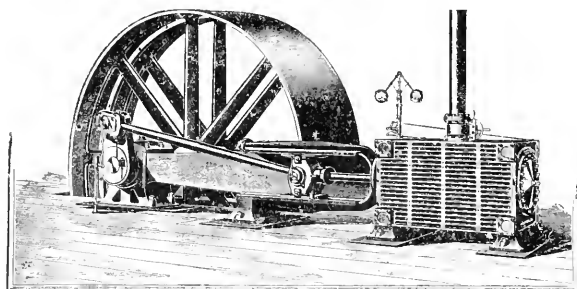
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The task of compiling the work has been much greater and more costly than anticipated, having required the labor of a large office and field force for twelve months, instead of six, as at first contemplated; and we feel confident that the detailed information herein given will be duly appreciated by our patrons, and especially so by those who have ever undertaken to secure simply a list of names of mining companies and operators.

Great care has been taken to secure accuracy in the compilation, and no pains or expense has been spared to obtain details from all mining companies and operators, blast furnaces, smelters and reduction-works, repeated efforts having been made to that end.

As no name appears in the regular lists unless we have direct information in regard to same on file in our office, supplementary lists are given of those whom we have good reason to believe exist at points named, but who have neglected to furnish the detailed information desired. We have found a large number of alleged mining companies existing solely on paper, having no claim to the name, so far as owning or developing mining properties is concerned, and we have endeavored to leave all such out of the lists, as it is the intention to list only those actively engaged in mining or in a fair way to become so in the near future. As with mining companies, so with blast furnaces, smelters and the other lists given, we have sought to list only companies or individuals actively engaged in the various industries.

The lists of mining engineers, assayers, etc., and of attorneys, contain only the names of persons who have been recommended to us as being reliable and capable in their professions.

The laws have received more than ordinary attention, and will, no doubt, prove one of the most valuable features of the book. The mining codes of the United States, Canada, British Columbia and Mexico are given in full, that of Mexico having been translated from the original Spanish by a member of the DIRECTORY staff, while the digests of the statutes of the states and territories of the United States and the Canadian provinces have been prepared expressly for the work by resident attorneys of known ability.

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For a full and complete understanding of the lists it will be well always to read the heading at beginning of list or top of page, which explains the contents of the list following, as per example:

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It is intended to issue THE MINING DIRECTORY annually, and we will feel under obligations to those of our patrons who may be disposed to furnish us information in regard to any matter deserving a place in the book, as it is our desire to make the work a standard guide and reference book for the mining interests of the country.

In conclusion, we tender our sincere thanks for the many kindnesses shown by government officials and individuals connected with mining interests, for valuable information furnished, and to our many patrons for the generous support given the work, which we fully appreciate, and of which we will strive to merit a continuance.

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CHICAGO, Ill., U. S. A., December, 1892.

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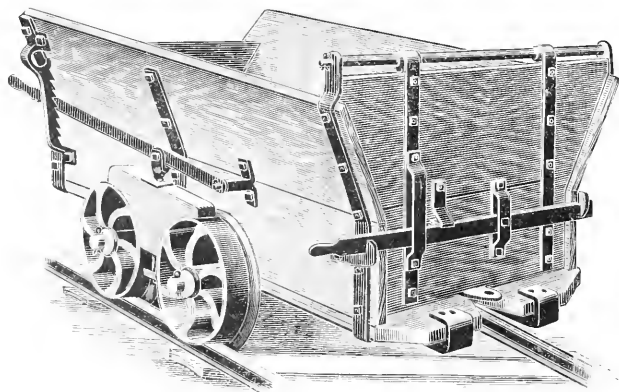
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INDEX

OF

RAILWAYS, WATER-ROUTES AND EXPRESS COMPANIES

EXPLANATION. To ascertain on what Railway or Water-Route a shipping point is located, and Express Company to that point, see figures following. Ry. in list of Mining Companies and Operators, which refer to the numbers in this index.

- 1 Abbeville & Waycross Ry. Southern Express
- 2 Abilene & Northwestern Ry. Northern Pacific Express
- 3 Addison & Pennsylvania Ry. Wells, Fargo & Co's Express
- 4 Adirondack & St. Lawrence Ry. American Express
- 5 Adirondack Ry. National Express
- 6 Alabama Midland Ry. Southern Express
Operated by Plant system
- 7 Alabama River
- 8 Albemarle & Raleigh Ry. Southern Express
- 9 Albemarle & Raleigh Ry. Southern Express
Operated by Norfolk Southern
- 10 Alberta Ry. & Coal Co. Ry. Dominion Express
- 11 Allegheny Valley Ry. Adams Express
- 12 Allegheny & Kinzua Ry. Adams Express
- 13 Alliance & Northern Ry. Southern Express
- 14 Altoona & Wapenock Ry. Adams Express
- 15 Anate River
- 16 Annapolis, Washington & Baltimore Ry. Adams Express
- 17 Annapolis & Baltimore Short Line Ry. United States and Baltimore & Ohio Expresses
- 18 Appalachicola River
- 19 Arizona & New Mexico Ry. Arizona & New Mexico Express
- 20 Arizona & Northwestern Ry. Wells, Fargo & Co's Express
- 21 Arkansas Midland Ry. Southern Express
- 22 Arkansas & Louisiana Ry. Pacific Express
- 23 Arkansas River
- 24 Ashland Coal & Iron Ry. Adams Express
- 25 Asheville & Spartanburg Ry. Adams Express
- 26 Atchison, Topeka & Santa Fe Ry. Wells, Fargo & Co's Express
- 27 Atlanta & Florida Ry. Southern Express
- 28 Atlanta & West Point Ry. Southern Express
- 29 Atlanta City Ry. United States Express
- 30 Atlanta Coast Line Passenger & Road Ry. Southern Express
- 31 Atlantic Ocean
- 32 Atlantic & Florida Ry. Southern Express
- 33 Atlantic & Northern Ry. Southern Express
- 34 Atlantic & Western Ry. Southern Express
- 35 Augusta, Gibson & Sandusky Ry. Southern Express
- 36 Aust. & North Western Ry. Adams Express
- 37 Austin & North Western Ry. Pacific Express
- 38 Baes des Chateaux Ry. Canadian Express
- 39 Baltimore & Delaware Bay Ry. Adams Express
- 40 Baltimore & Eastern Shore Ry. United States Express
- 41 Baltimore & Lehigh Ry. Adams Express
- 42 Baltimore & Ohio Ry. Baltimore & Ohio Express
- 43 Baltimore & Ohio Southern Ry. Baltimore & Ohio Express
- 44 Baltimore & Potomac Ry. Adams Express
- 45 Bangor & Katahdin Iron Works Ry. American Express
- 46 Bangor & Piscataway Ry. American Express
- 47 Bangor & Portland Ry. and Matt. & Co's Branch. United States Express
- 48 Barclay & Richmond Co. Ry. Adams Express
Operated by Toward & Co's Co. Richmond Ry.
- 49 Barre Ry. American Express
- 50 Bath & Hallowell Ry. Wells, Fargo & Co's Express
- 51 Bay of Quinn Railway and Navigation Co. Canadian Express
- 52 Beaver Creek Ry. Adams Express
- 53 Beavertown & Wood Lake Ry.
- 54 Bear Lake & F. S. Ry. American Express
- 55 Belair, Zanesville & Cincinnati Ry. Adams Express
- 56 Belknap & Lehigh Ry. Columbia Ry. Wells, Fargo & Co's Express
- 57 Bennington & Lonsdale Ry. National Express
- 58 Bennington & Rutland Ry. National Express
- 59 Bentonville Ry. Adams Express
- 60 Birmingham, Seale & New Orleans Ry. Southern Express
- 61 Birmingham, Sheffield & Tennessee Ry. Southern Express
- 62 Birmingham & Atlanta Ry. Southern Express
- 63 Bishopville Ry. Southern Express
- 64 Black Hills & Fort Pierre Ry. Wells, Fargo & Co's Express
- 65 Blackville, Afton & Newbury Ry. Southern Express
- 66 Bloomberg & Sullivan Ry. United States Express
- 67 Blue Ridge & Atlantic Ry. Southern Express
- 68 Boston, Lynn & Beach & Lynn Ry. Boston Local Express
- 69 Boston, Wrentham & Shore Ry. Boston Local Express
- 70 Boston & Albany Ry. American and Adams Expresses
- 71 Boston & Maine Ry. American Express
- 72 Bradford, Bristol & Keeney Ry. Wells, Fargo & Co's Express
- 73 Bradford, Edinburg & Co. Ry. Wells, Fargo & Co's Express
- 74 Brantford, Waterloo & Lake Erie Ry. American Express
- 75 Brazos River
- 76 Brockbridge Co. Ry. Adams Express
- 77 Bralston & Saco River Ry. American Express
- 78 Brimley, Helena & Indian Bay Ry. Pacific and Southern Express
- 79 Bristol, Elizabethton & N. Carolina Ry. Southern Express
- 80 Brockville, Westport & Saint Ste. Marie Ry. Dominion Express
- 81 Brooklyn, Earth & West End Ry. New York Local Express
- 82 Brooklyn & Brighton Beach Ry. New York Local Express
- 83 Brunswick & Western Ry. Southern Express
- 84 Buffalo & Monrovia Ry. Dominion Express
- 85 Buffalo, Tonawanda & Pittsburgh Ry. American Express
- 86 Buffalo, Tonawanda & Buffalo Ry. Adams Express
- 87 Burlington, Cedar Rapids & Northern Ry. United States Express
- 88 Burlington & Missouri River Ry. Wells, Fargo & Co's Express
- 89 Burlington & Northwestern Ry. American Express
- 90 Burlington & Western Ry. American Express
- 91 Cadillac & Northeastern Ry. Adams Express
- 92 Cadillac, Escanaba & Ontonagon Ry. American Express
- 93 Cadillac & Atlantic Ry. Adams and Camden & Atlantic Expresses
- 94 Can. & Atlantic Ry. Canadian Express
- 95 Canada Eastern Ry. Canadian Express
- 96 Canadian Pacific Ry. Dominion and American Expresses
- 97 Cape Breton Ry. Canadian Express
- 98 Cape Fear & Vackin Valley Ry. Southern Express
- 99 Cape Fear & North Western Ry. Cape Fear & North Western Express
- 100 Cape May & Seaside Ferry Ry. West Jersey Express
- 101 Carleton Place Ry. Canadian Express
- 102 Carleton & Ontario Ry. Canadian Express
- 103 Carleton Place, From Carleton Place to Hamilton, Gait. Ry. Southern Express
- 104 Carleton Central Ry. Southern Express
- 105 Carleton, Cumberland Gap & Chicago Ry. Southern Express
Operated by South Carolina Ry.
- 106 Carleton Midland Ry. Southern Express
- 107 Carleton, Litchfield & Gulf Ry. Southern Express
- 108 Carson & Corral Ry. Wells, Fargo & Co's Express
- 109 Carthage & Adirondack Ry. American Express
- 110 Cassville & Logansville Ry. United States Express
Operated by Philadelphia & Reading Ry.
- 111 Catskill Mountain & Lake Ry. American Express
- 112 Cedar Rapids & M. Ry. Adams Express
- 113 Cedar & Arizona Ry. Wells, Fargo & Co's Express
- 114 Central & South Carolina Ry. Southern Express
- 115 Central & Chesapeake Ry. Adams Express
- 116 Central & New York & Western Ry. Adams Express
- 117 Central Ry. of New Brunswick Canadian Express
- 118 Central Ry. of New Jersey United States Express
- 119 Central Ontario Ry. Canadian Express
- 120 Central Vermont Ry. American and National Expresses
- 121 Charleston, Charleston & Chicago Ry. Southern Express
- 122 Charleston, Sumter & Northern Ry. Southern Express
- 123 Charleston & Savannah Ry. Southern Express
- 124 Chatham & Savannah Ry. Southern Express
- 125 Chatham & Savannah Ry. Southern Express
- 126 Chatham & Savannah Ry. Southern Express
- 127 Chattanooga & Union Ry. Co. United States Express
- 128 Chattanooga & Lookout Mountain Ry. Southern Express
- 129 Chattanooga & Lookout Mountain Ry. Southern Express
- 130 Chatham & Union Ry. Co. United States Express
- 131 Chesapeake & Maryland Ry. Adams Express
- 132 Chesapeake & Ohio Ry. Adams and Baltimore & Ohio Expresses
- 133 Chicago, Burlington & Kansas Ry. American Express
- 134 Chicago, Burlington & Northern Ry. American Express
- 135 Chicago, Burlington & Northern Ry. American Express
- 136 Chicago, Fairchild & Fairchild Ry. American Express
- 137 Chicago, Madison & Des Moines Ry. American Express
- 138 Chicago, La Crosse & Rockford Ry. American Express
- 139 Chicago, Rock Island & St. Louis Ry. American Express
- 140 Chicago, Rock Island & St. Louis Ry. United States Express
- 141 Chicago, Rock Island & St. Louis Ry. American and Adams Expresses
- 142 Chicago, Rock Island & St. Louis Ry. American Express
- 143 Chicago, Rock Island & St. Louis Ry. American Express

- 114 Chicago, St. Paul & Kansas City Ry., United States Express.
 115 Chicago & Alton Ry., United States Express.
 116 Chicago & Eastern Illinois Ry., American Express.
 117 Chicago & Grand Trunk Ry., Adams Express.
 118 Chicago & Iowa Ry., American Express.
 119 Chicago & Northern Pacific Ry., Northern Pacific Express.
 120 Chicago & Northwestern Ry., American and United States Expresses.
 121 Chicago & Ohio River Ry., Adams and American Expresses.
 122 Chicago & West Michigan Ry., American Express.
 123 Chippewa River & Menominee Ry., American Express.
 124 Clatsop Coal & Lumber Co. Ry., Adams Express.
 125 Cincinnati, Georgetown & Portsmouth Ry., Adams Express.
 126 Cincinnati, Hamilton & Dayton Ry., Baltimore & Ohio Express.
 127 Cincinnati, Jackson & Mackinaw Ry., American Express.
 128 Cincinnati, Lebanon & Northern Ry., American Express.
 129 Cincinnati, New Richmond & Ohio River Ry., Adams Express.
 130 Cincinnati Northwestern Ry., United States Express.
 131 Cincinnati, Saginaw & Mackinaw Ry., National Express.
 132 Cincinnati & Green River Ry., Baltimore & Ohio Express.
 133 Cincinnati & Kentucky Southern Ry., United States and Baltimore & Ohio Expresses.
 134 Cincinnati & Muskegon Valley Ry., Adams Express.
 135 Cincinnati, Portsmouth & Virginia R. Ry., Adams Express.
 136 Cincinnati & Southeastern Ry., Adams Express.
 137 Cincinnati, Wabash & Michigan Ry., United States Express.
 138 Cincinnati, Wheeling & New York Ry., Adams Express.
 139 Cleveland, Akron & Columbus Ry., Adams Express.
 140 Cleveland, Cincinnati, Chicago & St. Louis Ry., Adams and American Expresses.
 141 Cleveland, Lorain & Wheeling Ry., American Express.
 142 Cleveland, St. Louis & Kansas City Ry., Pacific Express.
 143 Cleveland & Canton Ry., American Express.
 144 Cleveland & Marquette Ry., American Express.
 145 Cleveland & Pittsburg Ry., Adams Express.
 146 Colburg, Blariston & Marquette Ry., Canadian Express.
 147 Colorado River.
 148 Colorado River (Texas).
 149 Columbia & Puget Sound Ry., Northwestern Express.
 150 Columbia River.
 151 Columbus, Hocking Valley & Toledo Ry., American Express.
 152 Columbus, Lawrence & Hocking Ry., United States and Wells, Fargo & Co.'s Expresses.
 153 Columbus Southern Ry., Southern Express.
 154 Colusa & Lake Ry., Wells, Fargo & Co.'s Express.
 155 Concord & Montreal Ry., American Express.
 156 Connecticut River Ry., American Express.
 157 Connecticut River.
 158 Cooperstown & Charlotte Valley Ry., National Express.
 159 Cornwall Ry., United States Express.
 160 Cornwallis Valley Ry., Canadian Express.
 161 Cornwall & Lebanon Ry., Adams Express.
 162 Coronado Ry., Wells, Fargo & Co.'s Express.
 163 Corvallis & Port Alcan Ry., American Express.
 164 Covington & Mason Ry., Southern Express.
 165 Cresson, Chesterfield County & New York Short Route Ry., Adams Express.
 166 Crown Point Ry., National Express.
 167 Crystal City Ry., Pacific Express.
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 170 Cumberland & Pennsylvania Ry., Adams Express.
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 172 Danville & Lee College Ry., Southern Express.
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 174 Danville & Western R. R., Southern Express.
 175 Darlington & Russellville Ry., Pacific Express.
 176 Dayton, Fort Wayne & Chicago Ry., American and United States Expresses.
 177 (Operated by Cincinnati, Hamilton & Dayton Ry.)
 178 Dayton & Union Ry., United States Express.
 179 Deadwood Central Ry., Wells, Fargo & Co.'s Express.
 180 Delaware, Lackawanna & Western Ry., United States Express.
 181 Delaware River Ry., Adams Express.
 182 Delaware River & Lancaster R. R.
 183 Delaware & Hudson Ry., National Express.
 184 Denison & Washita Valley Ry., Pacific Express.
 185 Denver & Rio Grande Ry., Denver & Rio Grande Express.
 186 Denver & Scranton R. R., Pacific and Wells, Fargo & Co.'s Express.
 187 Des Moines & Kansas City Ry., American Express.
 188 Des Moines & Northern Ry., United States Express.
 189 Des Moines & Northwestern Ry., United States Express.
 190 Detroit, Bay City & Alpena Ry., American Express.
 191 Detroit, Grand Haven & Milwaukee Ry., National Express.
 192 Detroit, Lansing & Northern Ry., American Express.
 193 Detroit River.
 194 Diamond Valley Ry., Adams Express.
 195 Dodge City, Montezuma & Trinidad Ry., United States Express.
 196 Dover & Statesborough Ry., Southern Express.
 197 Drummond County Ry., Dominion Express.
 198 Duluth, Mesaba & Northern Ry.
 199 Duluth, Red Wing & Southern Ry., American Express.
 200 Duluth, South Shore & Atlantic Ry., American Express.
 201 Duluth & Iron Range Ry., United States Express.
 202 Duluth & Winnipeg Ry., Adams Express.
 203 Dumfries, Allegheny Valley & Pittsburg Ry., American Express.
 204 Durham & Western Ry., Southern Express.
 205 East & West R. R. of Alabama, Southern Express.
 206 East Broad Top Ry., Adams Express.
 207 Eastern Ohio R. R., American and Baltimore & Ohio Expresses.
 208 East Florida & Atlantic R. R., Southern Express.
 209 East Line & Red River Ry., Pacific Express.
 210 East Louisiana Ry., Baltimore & Ohio Express.
 211 East Tennessee, Virginia & Georgia Ry., Southern Express.
 212 East Tennessee & Western North Carolina Ry., Southern Express.
 213 Eastern Kentucky Ry., Adams Express.
 214 Elber River & Eureka Ry., Wells, Fargo & Co.'s Express.
 215 Egypt of North Carolina Ry., Southern Express.
 216 Elgin, John & Eastern Ry., United States Express.
 217 Elgin, Portlock & Havelock Ry., Canadian Express.
 218 Elmira, Cortland & Northern Ry., National Express.
 219 Empire & Hudson Ry., Southern Express.
 220 Erie & Huron Ry., Dominion Express.
 221 Erie Canal.
 222 Erie & Pittsburgh Ry., Adams Express.
 223 Erie & Wyoming Valley Ry., Wells, Fargo & Co.'s Express.
 224 Esplanade & Natchez Ry., Northern Pacific, Dominion and Wells, Fargo & Co.'s Expresses.
 225 Eureka Springs Ry., Adams Express.
 226 Eureka & Fallsdale Ry., Wells, Fargo & Co.'s Express.
 227 Evansville & Terre Haute Ry., Adams and Pacific Expresses.
 228 Fall Brook Coal Co. Ry., American Express.
 229 Fairhaven & Southern Ry., Dominion Express.
 230 Farmville & Powhattan Ry., Southern Express.
 231 Fingert, Fort Wayne & Western Ry., United States Express.
 232 Fishburg Ry., National Express.
 233 Flint & Pere Marquette Ry., American Express.
 234 Florida, Central & Peninsular Ry., Southern Express.
 235 Florida Midland Ry., Southern Express.
 236 Florida Southern Orange Belt Route Ry., Southern Express.
 237 Fond du Lac, Johnston & Gloversville Ry., American Express.
 238 Fort Wayne, Cincinnati & Louisville Ry., United States Express.
 239 Fort Worth & Rio Grande Ry., Pacific Express.
 240 Frankfurt & Southeastern Ry., American Express.
 241 Franklin & Meigs Ry., American Express.
 242 Franklin & Tilton Ry., American Express.
 243 Freshford & New York Ry., Adams Express.
 244 Frazier River.
 245 Fremont, Elkhorn & Missouri Valley Ry., Wells, Fargo & Co.'s Express.
 246 Fulton County Narrow Gauge Ry., American Express.
 247 Galesville, Jefferson & Southern Ry., Southern Express.
 248 Galveston & Western Ry., Southern Express.
 249 George's Creek & Cumberland Ry., Adams, United States and Baltimore & Ohio Expresses.
 250 Georgetown & Western Ry., Southern Express.
 251 Georgia Ry., Southern Express.
 252 Georgia, Carolina & Northern Ry., Southern Express.
 253 Georgia, Midland & Gulf Ry., Southern Express.
 254 Georgia Pacific Ry., Southern Express.
 255 Georgia Southern & Florida Ry., Southern Express.
 256 Gettysburg & Harrisburg Ry., Adams Express.
 257 Gratton Centre R. R., Adams Express.
 258 Great Falls & Union Ry., Adams Express.
 259 Grand Rapids & Indiana Ry., Adams Express.
 260 Grand Tower & Carbonate Ry., Adams Express.
 261 Grand Trunk Ry., National and Canadian Expresses.
 262 Great Eastern Ry., Canadian Express.
 263 Great Falls & Canadian Ry., Great Falls & Canadian Express.
 264 Great Northern Ry., Line, American Express.
 265 Great Northwest Central Ry., Dominion Express.
 266 Great Northern Line of Canada Ry., Dominion Express.
 267 Great Northern, Virginia & St. Paul Ry., United States Express.
 268 Greenwood, Walterboro & Branchville Ry., Southern Express.
 269 (See Plant System).
 270 Green Ridge Ry., United States and Baltimore & Ohio Expresses.
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 274 Gulf of Mexico.
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 279 Harrisburg & Potomac Ry., Adams Express.
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 282 Hidalgo Ry., Mexican National Express.
 283 Hot Springs Ry., Pacific Express.
 284 Hoosier Tunnel & Wilmington Ry., American Express.
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 286 Houston, East & West Texas Ry., Southern & Texas Express.
 287 Houston & Texas Central Ry., Wells, Fargo & Co.'s Express.
 288 Hudson River.
 289 Huntington & Shenandoah Ry., American Express.
 290 Huntington & Broad Top Mountain Ry., Adams Express.
 291 Hutchinson & Southern R. R., United States Express.
 292 Illinois Central Ry., American and Southern Expresses.
 293 Illinois River.
 294 Indiana, Illinois & Iowa Ry., United States Express.

- 332 Indiana & Illinois Southern Ry., Adams Express.
 333 Indianapolis, Decatur & Western Ry., American Express.
 334 Ingalls, White Rapids & Northern Ry., American Express.
 335 Intercolonial Ry., Canadian and Dominion Expresses.
 336 International & Great Northern Ry., Pacific, Southern, Texas and Wells, Fargo & Co.'s Expresses, between Houston and Galveston, all other branches Pacific.
 337 Iowa Central Ry., United States Express.
 338 Iowa Northern Ry., United States Express.
 339 Iron Ry., United States Express.
 340 Ironton Ry., Adams Express.
 341 Ironville, Canfield & Ottawa Ry., Canadian Express.
 342 Jockvale & Mill Creek Valley Ry., American and United States Expresses.
 343 Jacksonville, Mayport & Pablo Ry., Southern Express.
 344 Jacksonville, St. Augustine & Halifax River Ry., Southern Express.
 345 Jacksonville Southeastern Ry., Adams Express.
 346 Jacksonville, Tampa & Key West Ry., Southern Express.
 347 Jacksonville & Atlantic Ry., Southern Express.
 348 James River.
 349 Jameville & Washington Ry., Southern Express.
 350 Joppan Ry., American Express.
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 352 (Operated by the U. S. and Delaware Ry.)
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 354 Kanawha River.
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 359 Kanon & Prattburg Ry., Wells, Fargo & Co.'s Express.
 360 Kansas City Belt Ry., U. S.
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 363 Kansas City & Independence Rapid Transit Ry.
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 380 Kinderhook & Hudson Ry., American Express.
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 384 Knoxville, Cumberland Gap & Louisville Ry., Southern Express.
 385 Knoxville & Augusta Ry., Southern Express.
 386 Knoxville & New River Ry., Southern Express.
 387 Lackawanna & Pittsburg Ry., American Express.
 388 Lake Erie.
 389 Lake Erie, Alliance & Southern Ry., Adams Express.
 390 Lake Erie, Essex & Detroit River Ry., Canadian Express.
 391 Lake Erie & Western Ry., United States Express.
 392 Lake Huron.
 393 Lake Michigan.
 394 Lake Ontario.
 395 Lake Pontchartrain.
 396 Lake Shore & Michigan Southern Ry., United States Express, all points west of Cleveland, American Express, all points between Cleveland and Buffalo, United States Express, through express to Dunkirk and Buffalo.
 397 Lakeside & Middlehead Ry., United States Express.
 398 Lake St. Clair.
 399 Lake Superior.
 400 Lake Tennessee, Colonization Ry., Dominion and American Express.
 401 Lake Waukegan.
 402 Lancaster, Oxford & Southern Ry., Adams Express.
 403 L. Assumption Ry., Dominion Express.
 404 Laurel Fork & Sand Hill Ry., Baltimore & Ohio Express.
 405 Lehigh Valley Ry., National Express.
 406 Lehigh Valley Ry., Adams Express.
 407 Lehigh & Hudson River Ry., Wells, Fargo & Co.'s Express.
 408 Lehigh & Lackawanna Ry., United States Express.
 409 Lehigh Valley Ry., Adams Express.
 410 Little Rock & Fort Smith Ry., Pacific Express.
 411 Little Rock & Memphis Ry., Pacific and Southern Expresses.
 412 Long Island Ry., Long Island Express.
 413 Los Angeles Terminal Ry., Wells, Fargo & Co.'s Express.
 414 Louisiana Northwest Ry., Baltimore & Ohio Express.
 415 Louisville, Evansville & St. Louis Ry., United States Express.
 416 Louisville, Hardinsburg & Western Ry., United States Express.
 417 Louisville, New Albany & Chicago Ry., American Express.
 418 Louisville, New Albany & Corydon Ry., Adams Express.
 419 Louisville, New Orleans & Texas Ry., Pacific Express.
 420 Louisville & Portland Ry., United States Express.
 421 Louisville & Nashville Ry., Adams and Southern Expresses.
 422 Louisville & Wadley Ry., Southern Express.
 423 Lowell & Hastings R. Ry., National Express.
 424 Lynchburg & Durham Ry., Southern Express.
 425 Marion, Dublin & Savannah Ry., Southern Express.
 426 Mahoning Valley R. Ry., American Express.
 427 Maine Central Ry., American Express.
 428 (Operated between Mattawamkeag and Vaneboro, operates between Mattawamkeag and Vaneboro, Mattawamkeag & Vaneboro Ry., Elevated Ry. of New York City.)
 429 Manchester & Northwestern Ry., American Express.
 430 Manitoia & Northwestern Ry., Dominion Express.
 431 Manitou & Pikes Peak Ry.
 432 Maricopa & Phoenix Ry., Wells, Fargo & Co.'s Express.
 433 Marietta & North Georgia Ry., Southern Express.
 434 Maryland Central Ry., Adams Express.
 435 Mary's Landing & Ry. Co., Southern Express.
 436 Mason City & Fort Dodge Ry., American Express.
 437 Mason & Oceana Ry., American Express.
 438 Maxton, Alma & Rowland Ry., Southern Express.
 439 McKeown & Condit Ry., U. S.
 440 Meadville & Linesville Ry., Adams Express.
 441 McHenry Valley Ry., Southern Express.
 442 Memphis Route Ry., Southern Express.
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 444 Mendon, Waterbury & Connecticut River Ry., United States Express.
 445 Merrimack River.
 446 Mexican Ry., Wells, Fargo & Co.'s Express.
 447 Mexican Central Ry., Wells, Fargo & Co.'s Express.
 448 Mexican International Ry., Wells, Fargo & Co.'s Express.
 449 Mexican National Ry., Mexican National Express.
 450 Mexican Southern Ry., Wells, Fargo & Co.'s Express.
 451 (Operated by the U. S. and Delaware Ry.)
 452 Miami & Erie Canal.
 453 Michigan Central Ry., American Express.
 454 Michigan & Pacific Ry., Mexican National Express.
 455 Michigan, Scholastic Ry., National Express.
 456 Middleborough Belt R. R.
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 458 Middle Georgia & Atlantic Ry., Southern Express.
 459 Middle & East Tennessee Ry., Southern Express.
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 461 Millen & Southern Ry., Southern Express.
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 463 Milwaukee, Menomonee Falls & Western Ry., American Express.
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 465 Minden Ry., United States Express.
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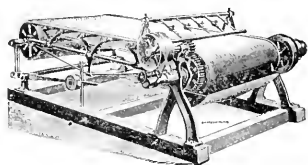
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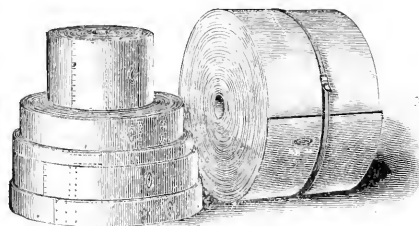
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EDDY ELECTRIC MANUFACTURING CO., Windsor, Conn.
See adv., page 17.

ELECTRICAL ENGINEERING & SUPPLY CO., St. Paul,
Minn. See adv., page 539.

GENERAL ELECTRIC CO., New York. See adv., page 538.

JENNEY ELECTRIC MOTOR CO., Indianapolis, Ind. See
adv., page 539.

EJECTORS

AMERICAN INJECTOR CO., Detroit, Mich. See adv.,
page 542.

PENBERTHY INJECTOR CO., Detroit, Mich. See adv.,
page 542.

ELECTRIC BLASTING APPARATUS

ÆTNA POWDER CO., Chicago, Ill. See adv., page 534.

METALLIC CAP MANUFACTURING CO., New York, N. Y.
See adv., page 594.

RAND DRILL CO., New York. See adv., page 20.

ELECTRIC CABLES

(See also Insulated Wire and Cables)

EASTERN ELECTRIC CABLE CO., Boston, Mass. See adv.,
page 529.

ELECTRIC DRILLS.

GENERAL ELECTRIC CO., New York, N. Y. See adv., page
538.

ELECTRIC GENERATORS

(See Dynamos)

ELECTRIC HEATERS

RAILWAY EQUIPMENT CO., Chicago, Ill. See adv.,
page 28.

ELECTRIC HOISTS

EDDY ELECTRIC MANUFACTURING CO., Windsor, Conn.
See adv., page 17.

GENERAL ELECTRIC CO., New York, N. Y. See adv.,
page 538.

**ELECTRIC LIGHT AND POWER
MACHINERY**

GENERAL ELECTRIC CO., Boston and New York. See adv.,
page 538.

JENNEY ELECTRIC MOTOR CO., Indianapolis, Ind. See
adv., page 539.

ELECTRIC LIGHT WIRE

(See also Insulated Wire and Cables.)

- GEO. CUTTER**, Chicago, Ill. See adv., page 12.
EASTERN ELECTRIC CABLE CO., Boston, Mass. See adv., page 339.
SIMPLEX ELECTRICAL CO., Boston, Mass. See adv., page 339.

ELECTRIC LOCOMOTIVES

- GENERAL ELECTRIC CO.**, New York. See adv., page 548.

ELECTRIC MINING MACHINERY

- GENERAL ELECTRIC CO.**, New York. See adv., page 548.
JEFFREY MFG. CO., Columbus, Ohio. See adv., page 4.
FRANK N. SLADE, Columbus, Ohio. See adv., page 129.

ELECTRIC MOTORS

- EDDY ELECTRIC MANUFACTURING CO.**, Windsor, Conn. See adv., page 17.
GENERAL ELECTRIC CO., New York. See adv., page 548.
JENNEY ELECTRIC MOTOR CO., Indianapolis, Ind. See adv., page 549.

ELECTRIC POWER TRANSMISSION PLANTS

- THE CREACHEAD ENGINEERING CO.**, Cincinnati, Ohio. See adv., page 546.
GENERAL ELECTRIC CO., New York. See adv., page 548.

ELECTRICAL CONSTRUCTION

- ELECTRICAL CONSTRUCTION CO.**, Chicago, Ill. See adv., page 339.

ELECTRICAL ENGINEERS

- ALFRED GUILLAUME**, Chicago, Ill. See adv., page 20.
ELECTRICAL CONSTRUCTION CO., Chicago, Ill. See adv., page 339.

ELECTRICAL ENGINEERS AND CONTRACTORS

- THE CREACHEAD ENGINEERING CO.**, Cincinnati, Ohio. See adv., page 546.
ELECTRICAL CONSTRUCTION CO., Chicago, Ill. See adv., page 339.

ELECTRICAL MACHINERY AND SUPPLIES

- CHICAGO IRON WORKS**, Chicago, Ill. See adv., page 21.
THE CREACHEAD ENGINEERING CO., Cincinnati, Ohio. See adv., page 546.
GEORGE CUTTER, Chicago, Ill. See adv., page 12.
EDDY ELECTRIC MANUFACTURING CO., Windsor, Conn. See adv., page 17.
ELECTRICAL ENGINEERING & SUPPLY CO., St. Paul, Minn. See adv., page 539.
GENERAL ELECTRIC CO., New York, N.Y. See adv., page 548.
JEFFREY MANUFACTURING CO., Columbus, Ohio. See adv., page 4.
JENNEY ELECTRIC MOTOR CO., Indianapolis, Ind. See adv., page 549.
OSTERLOH SUPPLY CO., Pittsburgh, Pa. See adv., page 541.
SIMPLEX ELECTRICAL CO., Boston, Mass. See adv., page 339.

ELECTRICAL MINE PUMPS

- THE COULDS MANUFACTURING CO.**, Schenectady, N.Y. See adv., page 470.

ELECTROLYTIC COPPER

- CHICAGO COPPER REFINING CO.**, Chicago, Ill. See adv., page 10.

ELEVATING MACHINERY

(See also Hoisting Machinery.)

- C. O. BARTLETT**, Cleveland, Ohio. See adv., page 1.
CHICAGO IRON WORKS, Chicago, Ill. See adv., page 21.
THE JEFFREY MANUFACTURING CO., Columbus, Ohio. See adv., page 4.
F. H. C. MEY, Buffalo, N.Y. See adv., page 541.
RICE MACHINERY CO., Chicago, Ill. See adv., page 541.

ELEVATORS

- J. W. REEDY ELEVATOR MANUFACTURING CO.**, Chicago, Ill. See adv., page 546.

EMERY WHEELS

- MICHIGAN EMERY WHEEL CO.**, Detroit, Mich. See adv., page 545.

ENGINEERING AND SURVEYING INSTRUMENTS

(See also Instruments and Test Apparatus.)

- EUGENE DIETZGEN & CO.**, Cincinnati, Ohio. See adv., page 547.
W. & L. E. CURLEY, Troy, N.Y. See adv., page 12.
QUEEN & CO., Philadelphia, Pa. See adv., page 549.
WILLIAM E. STIEREN, Pittsburgh, Pa. See adv., page 541.

ENGINES AND BOILERS

(See also Boilers and Steam Engines)

ATLAS ENGINE WORKS, Indianapolis, Ind.**THOMAS CARLIN'S SONS**, Allegheny, Pa. See adv., page 13.**CHANDLER & TAYLOR CO.**, Indianapolis, Ind. See adv., page 542.**CHICAGO IRON WORKS**, Chicago, Ill. See adv., page 21.**THOMAS P. CONARD**, Philadelphia, Pa. See adv., page 535.**NORWALK IRON WORKS CO.**, South Norwalk, Conn. See adv., page 36.**OSTERLOH SUPPLY CO.**, Pittsburgh, Pa. See adv., page 541.**PALMER & REY**, San Francisco, Cal. See adv., page 7.**FRANK N. SLADE**, Columbus, Ohio. See adv., page 539.**UNION IRON WORKS**, San Francisco, Cal. See adv., page 6.**WALBURN-SWENSON CO.**, Chicago, Ill. See adv., page 537.**EXHAUST FANS****GENERAL ELECTRIC CO.**, New York, N. Y. See adv., page 538.**GEORGE M. CROSS**, Chicago, Ill. See adv., page 34.**FEED WATER HEATERS AND PURIFIERS****FIELD FEED WATER PURIFIER CO.**, Chicago, Ill. See adv., page 533.**HOPPE'S MANUFACTURING CO.**, Springfield, Ohio. See adv., page 539.**KROESCHELLS & BOURCEOIS**, Chicago, Ill. See adv., page 540.**FEED WATER NEUTRALIZER****CEO. W. LORD**, Philadelphia, Pa. See adv., page 534.**FIRE BRICK GRINDING MACHINERY****THOMAS CARLIN'S SONS**, Allegheny, Pa. See adv., page 13.**FORCE PUMPS**

(See also Pumps)

THE P. H. & F. M. ROOTS CO., Cornersville, Ind. See adv., page 539.**FORGINGS****JACKSON & WOODIN MANUFACTURING CO.**, Benwick, Pa. See adv., page 541.**FREIGHT CARS****JACKSON & WOODIN MANUFACTURING CO.**, Benwick, Pa. See adv., page 541.**FRICTION CLUTCHES****CHICAGO SHAFTING & PULLEY CO.**, Chicago, Ill. See adv., page 541.**RICE MACHINERY CO.**, Chicago, Ill. See adv., page 541.**WEBSTER, CAMP & LANE MACHINE CO.**, Akron, Ohio. See adv., page 22.**FURNACE HOISTS**

(See also Hoisting Machinery)

THE BROWN HOISTING & CONVEYING MACHINE CO., Cleveland, Ohio. See adv., page 34.**FURNACES**

(Blasting and Smelting)

CHICAGO IRON WORKS, Chicago, Ill. See adv., page 21.**CATES IRON WORKS**, Chicago, Ill. See adv., page 3.**VULCAN IRON WORKS**, San Francisco, Cal. See adv., page 7.**WALBURN-SWENSON CO.**, Chicago, Ill. See adv., page 537.**FUSE****CLIMAX FUSE CO.**, New York, N. Y. See adv., page 534.**GAS COMPRESSORS****NORWALK IRON WORKS CO.**, South Norwalk, Conn. See adv., page 36.**GAS AND GASOLINE APPLIANCES****NEW YORK DOMESTIC GAS MACHINE CO.**, New York. See adv., page 29.**GAS MACHINES****NEW YORK DOMESTIC GAS MACHINE CO.**, New York. See adv., page 29.**GAS PLANTS****NEW YORK DOMESTIC GAS MACHINE CO.**, New York. See adv., page 29.**GAS AND VAPOR ENGINES****OTTO GAS ENGINE WORKS**, Philadelphia, Pa. See adv., page 536.**PALMER & REY**, San Francisco, Cal. See adv., page 7.**PRIESTMAN & CO.**, Philadelphia, Pa. See adv., page 539.**WEBSTER MANUFACTURING CO.**, Chicago, Ill. See adv., page 13.

GASOLINE ENGINES

- OTTO GAS ENGINE WORKS**, Philadelphia, Pa. See adv., page 526.
PALMER & REY, San Francisco, Cal. See adv., page 7.
PRIESTMAN & CO., Philadelphia, Pa. See adv., page 539.

GRAPHITE

- DETROIT GRAPHITE MANUFACTURING CO.**, Detroit, Mich. See adv., page 546.

GRAPHITE PAINTS

- DETROIT GRAPHITE MANUFACTURING CO.**, Detroit, Mich. See adv., page 546.

GRAPPLE BUCKETS

- McMYLER MANUFACTURING CO.**, Cleveland, Ohio. See adv., page 14.

GRAPPLES

- JAMES H. LANCASTER**, New York, N. Y. See adv., page 544.

GRAVEL EXCAVATORS

- JOHN SOUTHER & CO.**, Boston, Mass. See adv., page 7.

GREASE

- McCLINTOCK & IRVINE**, Allentown, Pa. See adv., page 10.
WADHAMS OIL & GREASE CO., Milwaukee, Wis. See adv., page 10.

GRINDING AND POLISHING MACHINERY

- MICHIGAN EMERY WHEEL CO.**, Detroit, Mich. See adv., page 35.

HAIR FELT

- FENLON & CO.**, Philadelphia, Pa. See adv., page 47.

HANGERS

- RICE MACHINERY CO.**, Chicago, Ill. See adv., page 11.

HARD PAN EXCAVATORS

- JOHN SOUTHER & CO.**, Boston, Mass. See adv., page 7.

HARDWARE

- KELLEY, MAUS & CO.**, Chicago, Ill. See adv., page 8.
S. D. KIMBARK, Chicago, Ill. See adv., page 8.

HAULAGE ENGINES

- LITCHFIELD CAR & MACHINE CO.**, Litchfield, Ill. See adv., page 536.
McMYLER MANUFACTURING CO., Cleveland, Ohio. See adv., page 14.
WEBSTER, CAMP & LANE MACHINE CO., Akron, Ohio. See adv., page 14.

HEATERS

- SAFETY LIGHT WATER HEATERS**, See adv., page 14.
HOPPES MANUFACTURING CO., Springfield, Ohio. See adv., page 5.

HEAVY SHEET METAL WORKERS

- HOPPES MANUFACTURING CO.**, Springfield, Ohio. See adv., page 5.

HOISTING ENGINES

- EDWARD P. ALLIS CO.**, Milwaukee, Wis. See adv., page 1.
CHICAGO IRON WORKS, Chicago, Ill. See adv., page 1.
CONTRACTORS' PLANT MANUFACTURING CO., Buffalo, N. Y. See adv., page 1.
COPELAND & BACON, New York and Chicago. See adv., page 1.
EXCELSIOR IRON WORKS, Cincinnati, Ohio. See adv., page 1.
PARKER, MELCHER & INGRAHAM, Chicago, Ill. See adv., page 1.
PROX & BRINKMAN MANUFACTURING CO., Fort Hamilton, N. Y. See adv., page 1.
J. W. REEDY ELEVATOR MANUFACTURING CO., Chicago, Ill. See adv., page 1.
UNION FOUNDRY & MACHINE WORKS, Troy, N. Y. See adv., page 1.
UNION IRON WORKS, San Francisco, Cal. See adv., page 1.
VULCAN IRON WORKS, San Francisco, Cal. See adv., page 1.

HOISTING MACHINERY

- EDWARD P. ALLIS CO.**, Milwaukee, Wis. See adv., page 1.
BOSTON & LOCKPORT BLOCK CO., Boston, Mass. See adv., page 7.
THE BROWN HOISTING & CONVEYING MACHINE CO., Chicago, Ill. See adv., page 1.
THOMAS CARLIN'S SONS, Allentown, Pa. See adv., page 1.
CHICAGO IRON WORKS, Chicago, Ill. See adv., page 1.
THOS. P. CONARD, Philadelphia, Pa. See adv., page 1.
CONTRACTORS' PLANT MANUFACTURING CO., Buffalo, N. Y. See adv., page 1.

HOISTING MACHINERY (CONTINUED)

- COPELAND & BACON**, Chicago and New York. See adv., page 535.
- J. HERBERTSON'S SONS**, Brownsville, Pa. See adv., page 542.
- THE KING BRIDGE CO.**, Cleveland, Ohio. See adv., page 28.
- LEEDS MANUFACTURING CO.**, Chicago, Ill. See adv., page 545.
- LITCHFIELD CAR & MACHINE CO.**, Litchfield, Ill. See adv., page 536.
- McMYLER MANUFACTURING CO.**, Cleveland, Ohio. See adv., page 13.
- JUSTIN J. PIE & CO.**, Osceola Mills, Pa. See adv., page 536.
- J. W. REEDY ELEVATOR MANUFACTURING CO.**, Chicago, Ill. See adv., page 536.
- S. B. STINE**, Osceola Mills, Pa. See adv., page 17.
- UNION FOUNDRY & MACHINE WORKS**, Rockaway, N. J. See adv., page 545.
- VULCAN IRON WORKS**, San Francisco, Cal. See adv., page 7.
- WALBURN-SWENSON CO.**, Chicago, Ill. See adv., page 547.
- WEBSTER, CAMP & LANE MACHINE CO.**, Akron, Ohio. See adv., page 22.

HOISTING ROPES

- CEO. B. CARPENTER & CO.**, Chicago, Ill. See adv., page 544.
- RICE MACHINERY CO.**, Chicago, Ill. See adv., page 541.

HORIZONTAL MINE PUMPS

(See also Mine Pumps)

- THE COULDS MANUFACTURING CO.**, Seneca Falls, N. Y. See adv., page 550.

HOSE STEAM AND AIR

- BOSTON BELTING CO.**, Boston, Mass. See adv., page 21.
- THE CUTTA PERCHA & RUBBER MANUFACTURING CO.**, Chicago, Ill. See adv., page 9.
- NEW JERSEY CAR SPRING & RUBBER CO.**, Jersey City, N. J. See adv., page 542.

HOT WATER BOILERS

- JUSTIN J. PIE & CO.**, Osceola Mills, Pa. See adv., page 536.
- S. B. STINE**, Osceola Mills, Pa. See adv., page 17.

HYDRAULIC JACKS

- JOSEPH F. MCCOY CO.**, New York, N. Y. See adv., page 541.

HYDRAULIC MACHINERY

- ÆTNA FOUNDRY & MACHINE CO.**, Springfield, Ill. See adv., page 34.

INCANDESCENT LAMPS

- GEORGE CUTTER**, Chicago, Ill. See adv., page 12.
- ELECTRICAL ENGINEERING AND SUPPLY CO.**, St. Paul, Minn. See adv., page 539.
- GENERAL ELECTRIC CO.**, New York. See adv., page 538.

INJECTORS

- AMERICAN INJECTOR CO.**, Detroit, Mich. See adv., page 542.
- J. M. EVERHART**, Scranton, Pa. See adv., page 544.
- PENBERTHY INJECTOR CO.**, Detroit, Mich. See adv., page 542.

INSULATED WIRE AND CABLES

(See also Electric Light Wire)

- GEORGE CUTTER**, Chicago, Ill. See adv., page 12.
- EASTERN ELECTRIC CABLE CO.**, Boston, Mass. See adv., page 539.
- SIMPLEX ELECTRICAL CO.**, Boston, Mass. See adv., page 539.

INVESTMENTS

(See also Brokers)

- A. P. FENNERTY**, Denver, Colo. See adv., page 543.
- W. F. KENDRICK**, Denver, Colo. See adv., page 551.

IRON AND STEEL BRIDGES

- BERLIN IRON BRIDGE CO.**, East Berlin, Conn. Our illustrated catalogue sent free.
- BOSTON BRIDGE WORKS**, Boston, Mass. See adv., page 552.
- THE KING BRIDGE CO.**, Cleveland, Ohio. See adv., page 28.

IRON BUILDINGS

- BERLIN IRON BRIDGE CO.**, East Berlin, Conn. Our illustrated catalogue sent free.
- BOSTON BRIDGE WORKS**, Boston, Mass. See adv., page 552.
- KING BRIDGE CO.**, Cleveland, Ohio. See adv., page 28.

IRON, STEEL AND HEAVY HARDWARE

- KELLEY, MAUS & CO.**, Chicago, Ill. See adv., page 8.
- S. D. KIMBARK**, Chicago, Ill. See adv., page 8.

IRRIGATING PLANTS

- THE JAMES LEFFEL & CO.**, Springfield, Ohio. See adv., page 552.
- FRANCIS SMITH & CO.**, San Francisco, Cal. See adv., page 15.

JIG MACHINES

WALBURN-SWENSON CO., Chicago, Ill. See adv., page 567.

JOURNAL BOXES

RICE MACHINERY CO., Chicago, Ill. See adv., page 541.

LACE LEATHER

(See also Belting.)

JEWELL BELTING CO., Hartford, Conn. See adv., page 547.

LAMPS

(See Miners' Lamps.)

LEAD BULLION

CHICAGO & AURORA SMELTING & REFINING CO.,
Chicago and Aurora, Ill. See adv., page 544.

SELBY SMELTING & LEAD CO., Salt Lake City, Utah. See
adv., page 546.

LEAD PIPE

SELBY SMELTING & LEAD CO., Salt Lake City, Utah. See
adv., page 546.

LINK BELT MACHINERY

C. O. BARTLETT, Cleveland, Ohio. See adv., page 549.

THE JEFFREY MANUFACTURING CO., Columbus, Ohio.
See adv., page 548.

F. H. C. MEY, Buffalo, N. Y. See adv., page 541.

LITHOGRAPHERS

WESTERN BANK NOTE CO., Chicago, Ill. See adv., page
550.

LOCOMOTIVE AND MACHINERY CASTINGS

THE LIMA LOCOMOTIVE & MACHINE CO., Lima, Ohio.
See adv., page 59.

LOCOMOTIVES

(See also Mine Locomotives.)

THE LIMA LOCOMOTIVE & MACHINE CO., Lima, Ohio.
See adv., page 59.

H. K. PORTER & CO., Pittsburgh, Pa. See adv., page 548.

LUBRICANTS

DETROIT GRAPHITE MANUFACTURING CO., Detroit,
Mich. See adv., page 546.

DETROIT LUBRICATOR CO., Detroit, Mich. See adv.,
page 546.

McCLINTOCK & IRVINE, Allegheny, Pa. See adv., page 542.

WADHAMS OIL & GREASE CO., Milwaukee, Wis. See
adv., page 5.

MAGNESIA PIPE COVERING

ROBERT A. KEASBEY, New York, N. Y. See adv., page 547.

MATHEMATICAL INSTRUMENTS

EUGENE DIETZGEN & CO., Chicago, Ill. See adv., page 7.

W. & L. E. CURLEY, Troy, N. Y. See adv., page 200.

WILLIAM E. STIEREN, Pittsburgh, Pa. See adv., page 48.

E. H. SARCENT & CO., Chicago, Ill. See adv., page 4.

MECHANICAL ENGINEERS

CONNOR & CRANT, San Francisco, Calif. See adv., page 543.

WATERS BROS., Detroit, Mich. See adv., page 540.

METAL ROOFING

BOSTON BRIDGE WORKS, Boston, Mass. See adv., page 542.

GEORGE M. CROSS, Chicago, Ill. See adv., page 544.

KANSAS CITY METAL ROOFING & CORRUGATING CO.,
Kansas City, Mo. See adv., page 7.

W. W. MONTAGUE & CO., San Francisco, Calif. See adv.,
page 543.

METALLIC PAINT

McCLINTOCK & IRVINE, Allegheny, Pa. See adv., page 542.

METALLURGISTS AND METALLURGICAL WORKS AND PROCESSES

RICKETTS & BANKS, New York, N. Y. See adv., page 542.

ST. LOUIS SAMPLING & TESTING WORKS, St. Louis,
Mo. See adv., page 496.

MILLING AND SMELTING MACHINERY

(See also Mining and Milling Machinery.)

SALT LAKE CITY FOUNDRY & MANUFACTURING CO.,
Salt Lake City, Utah. See adv., page 5.

MILL MACHINERY

(See Mining and Milling Machinery.)

MILLWRIGHTS

CONNOR & GRANT, San Francisco, Cal. See adv., page 9.

MINE BROKERS

ARKELL, MAC MILLAN & STEWART, Aspen, Colo. See adv., page 14.

J. CHAUVIN, Butte, Mont. See adv., page 526.

A. P. FENNERTY, Denver, Colo. See adv., page 543.

HAMILTON, LOWE & CO., Chicago, Ill. See adv., page 14.

W. F. KENDRICK, Denver, Colo. See adv., page 551.

KISSEL, OTIS & CONNOR, Colorado Springs, Colo. See adv., page 14.

GEORGE R. WOOD, New York City. See adv., page 546.

MINE CARS

CHICAGO IRON WORKS, Chicago, Ill. See adv., page 21.

COPELAND & BACON, Chicago and New York. See adv., page 543.

THE LIMA LOCOMOTIVE & MACHINE CO., Lima, Ohio. See adv., page 29.

MINERAL RIDGE MANUFACTURING CO., Mineral Ridge, Ohio. See adv., page 28.

PHILLIPS MINE SUPPLY CO., Pittsburgh, Pa. See adv., page 536.

JUSTIN J. PIE & CO., Oscoda Mills, Pa. See adv., page 546.

PROX & BRINKMAN MANUFACTURING CO., Terre Haute, Ind. See adv., page 546.

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. See adv., page 546.

S. B. STINE, Oscoda Mills, Pa. See adv., page 17.

WALBURN-SWENSON CO., Chicago, Ill. See adv., page 547.

MINE CAR WHEELS

(See also Car Wheels.)

A. WHITNEY & SONS, Philadelphia, Pa. See adv., page 546.

MINE DEALERS

(See also Brokers.)

ARKELL, MAC MILLAN & STEWART. See adv., page 14.

JAMES A. BOGGS, Duluth, Minn. See adv., page 14.

LEE BURT, Detroit, Mich. See adv., page 546.

J. CHAUVIN, Butte, Mont. See adv., page 526.

A. P. FENNERTY, Denver, Colo. See adv., page 543.

HAMILTON, LOWE & CO., Chicago, Ill. See adv., page 14.

W. F. KENDRICK, Denver, Colo. See adv., page 551.

KISSEL, OTIS & CONNOR, Colorado Springs, Colo. See adv., page 14.

WATERS BROS., Denver, Colo. See adv., page 9.

GEORGE R. WOOD, New York, N. Y. See adv., page 546.

MINE LOCOMOTIVES

GENERAL ELECTRIC CO., New York. See adv., page 548.

JEFFREY MFG. CO., Columbus, Ohio. See adv., page 4.

THE LIMA LOCOMOTIVE & MACHINE CO., Lima, Ohio. See adv., page 29.

H. K. PORTER & CO., Pittsburgh, Pa. See adv., page 548.

MINE PIPE

THE MICHIGAN PIPE CO., Bay City, Mich. See adv., page 15.

A. WYCKOFF & SON, Elmira, N. Y. See adv., page 15.

MINE PUMPS

EDWARD P. ALLIS CO., Milwaukee, Wis. See adv., page 2.

ÆTNA FOUNDRY & MACHINE CO., Springfield, Ill. See adv., page 543.

DEANE STEAM PUMP CO., Holyoke, Mass. See adv., page 543.

EPPING, CARPENTER & CO., LTD., Pittsburg, Pa. See adv., page 548.

THE GORDON STEAM PUMP CO., Hamilton, Ohio, and Chicago, Ill. See adv., page 544.

THE COULDS MANUFACTURING CO., Squeen Falls, N. Y. See adv., page 550.

UNION FOUNDRY & MACHINE WORKS, Rockaway, N. J. See adv., page 545.

WHEELER & TAPPAN CO., Chicago, Ill. See adv., page 543.

MINE SUPPLIES

EDWARD P. ALLIS CO., Milwaukee, Wis. See adv., page 2.

THE BROWN HOISTING & CONVEYING MACHINE CO., Cleveland, Ohio. See adv., page 44.

THOMAS CARLIN'S SONS, Allegheny, Pa. See adv., page 13.

GEO. B. CARPENTER & CO., Chicago, Ill. See adv., page 554.

CHICAGO IRON WORKS, Chicago, Ill. See adv., page 21.

J. M. EVERHART, Scranton, Pa. See adv., page 544.

CATES IRON WORKS, Chicago, Ill. See adv., page 3.

THE JEFFREY MANUFACTURING CO., Columbus, Ohio. See adv., page 4.

MINERAL RIDGE MANUFACTURING CO., Mineral Ridge, Ohio. See adv., page 28.

OSTERLOH SUPPLY CO., Pittsburgh, Pa. See adv., page 541.

PHILLIPS MINE SUPPLY CO., Pittsburgh, Pa. See adv., page 536.

H. K. PORTER & CO., Pittsburgh, Pa. See adv., page 548.

QUEEN CITY SUPPLY CO., Cincinnati, Ohio. See adv., page 549.

RICE MACHINERY CO., Chicago, Ill. See adv., page 541.

SOMERS, FITLER & CLARKE, Pittsburgh, Pa. See adv., page 548.

UNION IRON WORKS, San Francisco, Cal. See adv., page 6.

WALBURN-SWENSON CO., Chicago, Ill. See adv., page 547.

MINERAL LANDS

(See also Mine Brokers.)

JAMES A. BOGGS, Duluth, Minn. See adv., page 14.

LEE BURT, Detroit, Mich. See adv., page 546.

MINERAL WOOL

FENLON & CO., Philadelphia, Pa. See adv., page 547.

UNITED STATES MINERAL WOOL CO., New York, N. Y. See adv., page 547.

MINERS' LAMPS

(See also Safety Lamps.)

DEMMLER BROS., Pittsburgh, Pa. See adv., page 548.

J. M. EVERHART, Scranton, Pa. See adv., page 544.

JOSEPH F. MCCOY CO., New York, N. Y. See adv., page 544.

WM. E. STIEREN, Pittsburgh, Pa. See adv., page 548.

MINERS' SUPPLIES

MINERS' SUPPLY CO., St. Clair, Pa. See adv., page 544.

THOS. CARLIN'S SONS, Allegheny, Pa. See adv., page 43.

MINING AND QUARRYING MACHINERY

BOSTON & LOCKPORT BLOCK CO., Boston, Mass. See adv., page 47.

EXCELSIOR IRON WORKS, Cleveland, Ohio. See adv., page 47.

MINING AND MILLING MACHINERY

AMERICAN MANUFACTURING, MINING & MILLING CO., Cleveland, Ohio. See adv., page 47.

EDWARD P. ALLIS CO., Milwaukee, Wis. See adv., page 47.

C. W. BADGLEY & CO., Denver, Colo. See adv., page 549.

C. O. BARTLETT, Cleveland, Ohio. See adv., page 47.

THE BECKETT FOUNDRY & MACHINE CO., Arlington, N. J. See adv., page 545.

THE BROWN HOISTING & CONVEYING MACHINE CO., Cleveland, Ohio. See adv., page 47.

CARTER MAGNETIC ORE SEPARATOR CO., Brooklyn, N. Y. See adv., page 545.

CHICAGO IRON WORKS, Chicago, Ill. See adv., page 47.

THOS. P. CONARD, Philadelphia, Pa. See adv., page 545.

COPELAND & BACON, Chicago and New York. See adv., page 545.

CATES IRON WORKS, Chicago, Ill. See adv., page 47.

GEORGE M. CROSS, Chicago, Ill. See adv., page 47.

INCERSOLL-SERCEANT DRILL CO., New York, N. Y. See adv., page 545.

LITCHFIELD CAR & MACHINE CO., Litchfield, Ill. See adv., page 546.

NORWALK IRON WORKS CO., South Norwalk, Conn. See adv., page 546.

OSTERLOH SUPPLY CO., Pittsburgh, Pa. See adv., page 544.

PARKER, MELCHER & INCRAHAM, Chicago, Ill. See adv., page 47.

JUSTIN J. PIE & CO., Osceola Mills, Pa. See adv., page 546.

RAND DRILL CO., New York and Chicago. See adv., page 47.

SALT LAKE CITY FOUNDRY & MANUFACTURING CO., Salt Lake City, Utah. See adv., page 47.

SOMERS, FITLER & CLARKE, Pittsburgh, Pa. See adv., page 548.

S. B. STINE, Osceola Mills, Pa. See adv., page 47.

SULLIVAN MACHINERY CO., Chicago, Ill. See adv., page 545.

UNION IRON WORKS, San Francisco, Cal. See adv., page 47.

WALBURN-SWENSON CO., Chicago, Ill. See adv., page 545.

WEBSTER, CAMP & LANE MACHINE CO., Akron, Ohio. See adv., page 47.

WEBSTER MANUFACTURING CO., Chicago, Ill. See adv., page 47.

GEORGE D. WHITCOMB, Chicago, Ill. See adv., page 546.

MINING ENGINEERS

ALFRED CILLAUME, Chicago, Ill. See adv., page 47.

ST. LOUIS SAMPLING & TESTING WORKS, St. Louis, Mo. See adv., page 546.

WATERS BROS., Denver, Colo. See adv., page 47.

MINING PUBLICATIONS

ENGINEERING & MINING JOURNAL. See adv., page 46.

SCIENTIFIC PUBLISHING CO., New York City. See adv., page 46.

OFFICE SUPPLIES

CILBERT & BENNETT MANUFACTURING CO., New York and Chicago. See adv., page 47.

THAYER & JACKSON STATIONERY CO., Chicago, Ill. See adv., page 47.

WESTERN BANK NOTE CO., Chicago, Ill. See adv., page 546.

WYCKOFF, SEAMANS & BENEDICT, Chicago, Ill. See adv., page 5.

OILS

OSTERLOH SUPPLY CO., Pittsburgh, Pa. See adv., page 544.

WADHAMS OIL & GREASE CO., Milwaukee, Wis. See adv., page 47.

ORE BROKERS

C. M. CARRISON, Pittsburgh, Pa. See adv., page 46.

ORE BUCKETS

(See also Buckets.)

THE EXCELSIOR IRON WORKS CO., Cleveland, Ohio. See adv., page 47.

WEBSTER MANUFACTURING CO., Chicago, Ill. See adv., page 47.

ORE BUYERS

W. J. CHAMBERLAIN & CO., Denver, Colo. See adv., page 46.

ST. LOUIS SMELTING & REFINING CO., St. Louis, Mo. See adv., page 46.

ORE CARS

(See also Mine Cars)

THE LIMA LOCOMOTIVE & MACHINE CO., Lima, Ohio. See adv., page 29.**RUSSEL WHEEL & FOUNDRY CO.**, Detroit, Mich. See adv., page 536.**ORE SEPARATORS****BECKETT FOUNDRY & MACHINE WORKS**, Arlington, N. J. See adv., page 545.**CARTER MAGNETIC ORE SEPARATOR CO.**, Brooklyn, N. Y. See adv., page 545.**CHICAGO IRON WORKS**, Chicago, Ill. See adv., page 21.**ORE-TESTING WORKS****W. J. CHAMBERLAIN & CO.**, Denver, Colo. See adv., page 10.**RICKETTS & BANKS**, New York City. See adv., page 11.**PACKINGS**

(Famous and Metallic. See also Rubber Packings)

THE COODESELL PACKING CO., cor. Canal and Washington Sts., Chicago, Ill.**THE CUTTA PERCHA & RUBBER MANUFACTURING CO.**, Chicago, Ill. See adv., page 35.**RANDOLPH BRANDT**, New York City. See adv., page 547.**PAINTS****McCLINTOCK & IRVINE**, Allegheny, Pa. See adv., page 42.**PATENT SOLICITORS****DAYTON, POOLE & BROWN**, Chicago, Ill. See adv., page 12.**PERFORATED METALS****ROBERT AITCHISON PERFORATED METAL CO.**, Chicago, Ill. See adv., page 9.**CHICAGO IRON WORKS**, Chicago, Ill. See adv., page 21.**CLINTON WIRE CLOTH CO.**, Clinton, Mass. See adv., page 2.**MUNDT & SONS**, New York City. See adv., page 57.**UNION IRON WORKS**, San Francisco, Cal. See adv., page 6.**WALBURN-SWENSON CO.**, Chicago, Ill. See adv., page 57.**PICKS AND SHOVELS****KELLEY, MAUS & CO.**, Chicago, Ill. See adv., page 8.**S. O. KIMBARK**, Chicago, Ill. See adv., page 8.**PIG LEAD****C. M. CARRISON**, Pittsburgh, Pa. See adv., page 10.**PIG TIN****C. M. CARRISON**, Pittsburgh, Pa. See adv., page 10.**PIPE AND BOILER COVERINGS**

(See also Wood Steam-Pipe Coverings)

FENLON & CO., Philadelphia, Pa. See adv., page 547.**H. W. JOHNS MANUFACTURING CO.**, Chicago, Ill. See adv., page 547.**ROBERT A. KEASBEY**, New York, N. Y. See adv., page 547.**UNITED STATES MINERAL WOOL CO.**, New York, N. Y. See adv., page 547.**PIPES—WOOD****MICHIGAN PIPE CO.**, Bay City, Mich. See adv., page 15.**A. WYCKOFF & SON**, Elmira, N. Y. See adv., page 15.**PIT CARS**

(See also Cars)

J. HERBERTSON'S SONS, Brownsville, Pa. See adv., page 542.**PORTABLE PUMPS**

(See also Pumps)

THE COULDS MANUFACTURING CO., Seneca Falls, N. Y. See adv., page 559.**POWDER****ACME POWDER CO.**, Pittsburgh, Pa. See adv., page 48.**ÆTNA POWDER CO.**, Chicago, Ill. See adv., page 534.**ARTHUR KIRK & SON**, Pittsburgh, Pa. See adv., page 548.**POWER TRANSMISSION.****CHICAGO SHAFTING & PULLEY CO.**, Chicago, Ill. See adv., page 541.**GENERAL ELECTRIC CO.**, New York City. See adv., page 548.**JENNEY ELECTRIC MOTOR CO.**, Indianapolis, Ind. See adv., page 539.**RICE MACHINERY CO.**, Chicago, Ill. See adv., page 541.**WEBSTER MANUFACTURING CO.**, Chicago, Ill. See adv., page 13.**PRINTING****THAYER & JACKSON STATIONERY CO.**, Chicago, Ill. See adv., page 31.**PROSPECTING DRILLS.****PENNSYLVANIA DIAMOND DRILL & MANUFACTURING CO.**, Birdsboro, Pa. See adv., page 545.**SULLIVAN MACHINERY CO.**, Chicago, Ill. See adv., page 535.**WALBURN-SWENSON CO.**, Chicago, Ill. See adv., page 547.

PULLEYS.

(See also Shuttles and Pulleys.)

CHICAGO IRON WORKS, Chicago, Ill. See adv., page 21.
RICE MACHINERY CO., Chicago, Ill. See adv., page 541.

PULVERIZERS.

EDWARD P. ALLIS CO., Milwaukee, Wis. See adv., page 5.
AMERICAN MANUFACTURING, MINING & MILLING CO., Cleveland, Ohio. See adv., page 12.
BRADLEY FERTILIZER CO., Boston, Mass. See adv., page 12.
CHICAGO IRON WORKS, Chicago, Ill. See adv., page 21.
CATES IRON WORKS, Chicago, Ill. See adv., page 3.
RAYMOND BROS. IMPACT PULVERIZER CO., Chicago, Ill. See adv., page 4.
STURTEVANT MILL CO., Boston, Mass. See adv., page 525.

PUMP GOVERNORS

WHEELER & TAPPAN CO., Chicago, Ill. See adv., page 540.

PUMPS

(See also Steam Pumps.)

EDWARD P. ALLIS CO., Milwaukee, Wis. See adv., page 5.
ÆTNA FOUNDRY & MACHINE CO., Springfield, Ill. See adv., page 543.
CHICAGO IRON WORKS, Chicago, Ill. See adv., page 21.
DEANE STEAM PUMP CO., Holyoke, Mass. See adv., page 545.
EPPING, CARPENTER & CO., LTD., Pittsburgh, Pa. See adv., page 548.
GENERAL ELECTRIC CO., New York City. See adv., page 15.
THE CORDON STEAM PUMP CO., Hamilton, Ohio, and Chicago, Ill. See adv., page 54.
THE COULDS MANUFACTURING CO., Seneca Falls, N. Y. See adv., page 550.
NORWALK IRON WORKS CO., South Norwalk, Conn. See adv., page 36.
OSTERLOH SUPPLY CO., Pittsburgh, Pa. See adv., page 47.
THE P. H. & F. M. ROOTS CO., Columbus, Ind. See adv., page 559.
UNION IRON WORKS, San Francisco, Cal. See adv., page 37.
VULCAN IRON WORKS, San Francisco, Cal. See adv., page 37.
WEBSTER, CAMP & LANE MACHINE CO., Akron, Ohio. See adv., page 52.
WHEELER & TAPPAN CO., Chicago, Ill. See adv., page 540.

QUARRYING MACHINERY

EDWARD P. ALLIS CO., Milwaukee, Wis. See adv., page 5.
THOMAS CARLIN'S SONS, Allentown, Pa. See adv., page 1.
COPELAND & BACON, Chicago and New York. See adv., page 54.
CATES IRON WORKS, Chicago, Ill. See adv., page 3.
INCERSOLL-SERCEANT DRILL CO., New York, N. Y. See adv., page 1.
ARTHUR KIRK & SON, Erie, Pa. See adv., page 48.

LEEDS MANUFACTURING CO., Chicago, Ill. See adv., page 545.

LITCHFIELD CAR & MACHINE CO., Litchfield, Ill. See adv., page 546.

NORWALK IRON WORKS CO., South Norwalk, Conn. See adv., page 36.

PARKER, MELCHER & INCRAHAM, Chicago, Ill. See adv., page 22.

RAND DRILL CO., New York and Chicago. See adv., page 20.

SULLIVAN MACHINERY CO., Chicago, Ill. See adv., page 537.

WALBURN-SWENSON CO., Chicago, Ill. See adv., page 537.

WEBSTER, CAMP & LANE MACHINE CO., Akron, Ohio. See adv., page 52.

QUARRY SUPPLIES

(See also Quarrying Machinery.)

MINERS' SUPPLY CO., St. Clair, Pa. See adv., page 63.

QUEEN CITY SUPPLY CO., Cincinnati, Ohio. See adv., page 549.

RAILS

S. D. KIMBARK, Chicago, Ill. See adv., page 5.

RAILWAY SUPPLIES AND EQUIPMENT

THOMAS CARLIN'S SONS, Allentown, Pa. See adv., page 1.

JOSEPH F. McCOY CO., New York, N. Y. See adv., page 541.

OSTERLOH SUPPLY CO., Pittsburgh, Pa. See adv., page 47.

RAILWAY EQUIPMENT CO., Chicago, Ill. See adv., page 48.

GEORGE R. WOOD, New York City. See adv., page 546.

REDUCTION WORKS

ST. LOUIS SMELTING & REFINING CO., St. Louis, Mo. See adv., page 1.

WALBURN-SWENSON CO., Chicago, Ill. See adv., page 537.

ROCK CRUSHERS.

(See Crushers.)

ROCK DRILLS

CHICAGO IRON WORKS, Chicago, Ill. See adv., page 21.

INCERSOLL-SERCEANT DRILL CO., New York, N. Y. See adv., page 1.

PARKER, MELCHER & INCRAHAM, Chicago, Ill. See adv., page 22.

PENNSYLVANIA DIAMOND DRILL & MANUFACTURING CO., Buffalo, Pa. See adv., page 540.

RAND DRILL CO., New York and Chicago. See adv., page 20.

SULLIVAN MACHINERY CO., Chicago, Ill. See adv., page 537.

ROCK EMERY MILLSTONES

STURTEVANT MILL CO., Boston, Mass. See adv., page 525.

ROLL SHELLS

CHROME STEEL WORKS, Brooklyn, N. Y. See adv., page 61.

ROOFS

BERLIN IRON BRIDGE CO., East Berlin, Conn. Our illustrated catalogue sent free.
CEO. M. CROSS, Chicago, Ill. See adv., page 34.

ROPE TRAMWAYS

(See also Cable Tramways)

C. W. BADGLEY & CO., Denver, Colo. See adv., page 549.

ROPE TRANSMISSION

(Dodge System. See also Power Transmission)

RICE MACHINERY CO., Chicago, Ill. See adv., page 541

RUBBER GOODS

BOSTON BELTING CO., Boston, Mass. See adv., page 21.
THE CUTTA PERCHA & RUBBER MANUFACTURING CO., Chicago, Ill. See adv., page 9.
NEW JERSEY CAR SPRING & RUBBER CO., Jersey City, N. J. See adv., page 532.

RUBBER HOSE

THE CUTTA PERCHA & RUBBER MANUFACTURING CO., Chicago, Ill. See adv., page 9.
NEW JERSEY CAR SPRING & RUBBER CO., Jersey City, N. J. See adv., page 532.

RUBBER PACKING

BOSTON BELTING CO., Boston, Mass. See adv., page 21.

SAFETY LAMPS

DEMMLER BROS., Pittsburgh, Pa. See adv., page 548.
J. M. EVERHART, Scranton, Pa. See adv., page 544.
JOSEPH F. MCCOY CO., New York, N. Y. See adv., page 544.
WILLIAM E. STIEREN, Pittsburgh, Pa. See adv., page 548.

SAFETY SQUIBS

MINERS' SUPPLY CO., St. Clair, Pa. See adv., page 544.

SAMPLING WORKS

W. J. CHAMBERLAIN & CO., Denver, Colo. See adv., page 10.
RICKETTS & BANKS, New York City. See adv., page 41.
ST. LOUIS SAMPLING & TESTING WORKS, St. Louis, Mo. See adv., page 546.
WALBURN-SWENSON CO., Chicago, Ill. See adv., page 537.

SCIENTIFIC PUBLICATIONS

W. & L. E. CURLEY, Troy, N. Y. See adv., page 9.
E. H. SARCENT & CO., Chicago, Ill. See adv., page 4.
SCIENTIFIC PUBLISHING CO., New York City. See adv., page 16.

SCREEN PLATES

CHICAGO IRON WORKS, Chicago, Ill. See adv., page 21.
CLINTON WIRE CLOTH CO., Clinton, Mass. See adv., page 8.

SCREENS

ROBERT AITCHISON PERFORATED METAL CO., Chicago, Ill. See adv., page 9.
CHICAGO IRON WORKS, Chicago, Ill. See adv., page 21.
CLINTON WIRE CLOTH CO., Clinton, Mass. See adv., page 8.
EASTWOOD WIRE MANUFACTURING CO., Belleville, N. J. See adv., page 526.
GILBERT & BENNETT MANUFACTURING CO., New York and Chicago. See adv., page 527.
HOWARD & MORSE, New York City. See adv., page 527.
MUNDT & SONS, New York City. See adv., page 527.
PHILLIPS MINE SUPPLY CO., Pittsburgh, Pa. See adv., page 536.
PROX & BRINKMAN MANUFACTURING CO., Terre Haute, Ind. See adv., page 536.
THE PHOENIX WIRE WORKS, Detroit, Mich. See adv., page 9.
UNION FOUNDRY & MACHINE WORKS, Rockaway, N. J. See adv., page 545.
WALBURN-SWENSON CO., Chicago, Ill. See adv., page 537.

SECOND-HAND MINING MACHINERY

THOS. P. CONARD, Philadelphia, Pa. See adv., page 545.

SHAFT PUMPS

(See also Pumps)

THE COULDS MANUFACTURING CO., Seneca Falls, N. Y. See adv., page 530.

SHAFTING AND PULLEYS

CHICAGO IRON WORKS, Chicago, Ill. See adv., page 21.
CHICAGO SHAFTING & PULLEY CO., Chicago, Ill. See adv., page 544.
DAYTON GLOBE IRON WORKS CO., Dayton, Ohio. See adv., page 14.
RICE MACHINERY CO., Chicago, Ill. See adv., page 541.
WALBURN-SWENSON CO., Chicago, Ill. See adv., page 537.

SHEET-IRON AND STEEL PIPE

W. W. MONTAGUE & CO., San Francisco, Cal. See adv., page 525.
FRANCIS SMITH & CO., San Francisco, Cal. See adv., page 15.

SHEET-IRON WORKS

SCIOTO BOILER WORKS, Columbus, Ohio. See adv., page 540.

SHEET LEAD

SELBY SMELTING & LEAD CO., San Francisco, Cal. See adv., page 10.

SHOES AND DIES

CHICAGO IRON WORKS, Chicago, Ill. See adv., page 21.

CHROME STEEL WORKS, Brooklyn, N. Y. See adv., page 541.

A. WHITNEY & SONS, Philadelphia, Pa. See adv., page 546.

SINKING PUMPS

(See also Pumps.)

THE COULDS MANUFACTURING CO., Seneca Falls, N. Y. See adv., page 559.

SLACK REMOVERS

THE P. H. & F. M. ROOTS CO., Connersville, Ind. See adv., page 570.

SMELTERS AND REFINERS

CHICAGO & AURORA SMELTING & REFINING CO., Chicago and Aurora, Ill. See adv., page 11.

CHICAGO COPPER REFINING CO., Chicago, Ill. See adv., page 11.

NATIONAL SMELTING & REFINING CO., Chicago, Ill. See adv., page 46.

ST. LOUIS SMELTING & REFINING CO., St. Louis, Mo. See adv., page 10.

SELBY SMELTING & LEAD CO., San Francisco, Cal. See adv., page 10.

SPELTER AND ANTIMONY

C. M. GARRISON, Pittsburgh, Pa. See adv., page 10.

STAMP MILLS

EDWARD P. ALLIS CO., Milwaukee, Wis. See adv., page 7.

THE BECKETT FOUNDRY & MACHINE CO., Arlington, N. J. See adv., page 515.

CHICAGO IRON WORKS, Chicago, Ill. See adv., page 21.

CATES IRON WORKS, Chicago, Ill. See adv., page 2.

UNION IRON WORKS, San Francisco, Cal. See adv., page 3.

VULCAN IRON WORKS, San Francisco, Cal. See adv., page 7.

WALBURN-SWENSON CO., Chicago, Ill. See adv., page 47.

STATIONERY

THAYER & JACKSON STATIONERY CO., Chicago, Ill. See adv., page 41.

STEAM AND HOT WATER PLANTS

NEW YORK DOMESTIC GAS MACHINE CO., New York, N. Y. See adv., page 20.

STEAM ENGINES

EDWARD P. ALLIS CO., Milwaukee, Wis. See adv., page 7.

THE BECKETT FOUNDRY AND MACHINE CO., Arlington, N. J. See adv., page 515.

CHANDLER & TAYLOR CO., Indianapolis, Ind. See adv., page 542.

CHICAGO IRON WORKS, Chicago, Ill. See adv., page 21.

J. HERBERTSON'S SONS, Brownsville, Pa. See adv., page 512.

NORWALK IRON WORKS CO., South Norwalk, Conn. See adv., page 36.

OSTERLOH SUPPLY CO., Pittsburgh, Pa. See adv., page 411.

PRIESTMAN & CO., Philadelphia, Pa. See adv., page 470.

SCIOTO BOILER WORKS, Columbus, Ohio. See adv., page 49.

WEBSTER, CAMP & LANE MACHINE CO., Alton, Ohio. See adv., page 47.

STEAM PACKINGS

(See also Pumps.)

STEAM PUMPS

(See also Pumps.)

EDWARD P. ALLIS CO., Milwaukee, Wis. See adv., page 7.

ÆTNA FOUNDRY & MACHINE CO., Springfield, Ill. See adv., page 44.

CHICAGO IRON WORKS, Chicago, Ill. See adv., page 21.

DEANE STEAM PUMP CO., Holyoke, Mass. See adv., page 47.

EPPING, CARPENTER & CO., LTD., Pittsburgh, Pa. See adv., page 47.

THE CORDON STEAM PUMP CO., Hamilton, Ohio, and Chicago, Ill. See adv., page 547.

NORWALK IRON WORKS CO., South Norwalk, Conn. See adv., page 36.

PARKER, MELCHER & INGRAHAM, Chicago, Ill. See adv., page 49.

SCIOTO BOILER WORKS, Columbus, Ohio. See adv., page 49.

VULCAN IRON WORKS, San Francisco, Cal. See adv., page 7.

WALBURN-SWENSON CO., Chicago, Ill. See adv., page 47.

WEBSTER, CAMP & LANE MACHINE CO., Alton, Ohio. See adv., page 47.

WHEELER & TAPPAN CO., Chicago, Ill. See adv., page 41.

STEAM SHOVELS

JOHN SOUTHER & CO., Boston, Mass. See adv., page 47.

STEEL AND IRON SHAFING

(See also Shafting and Poles.)

RICE MACHINERY CO., Chicago, Ill. See adv., page 41.

STEEL RAILS

KELLEY, MAUS & CO., Chicago, Ill. See adv., page 41.

STOCK CERTIFICATES

WESTERN BANK NOTE CO., Chicago, Ill. See adv., page 550.

STONE BARROWS

(See also Wheelbarrows.)

THE KILBOURNE & JACOBS MANUFACTURING CO., Columbus, Ohio. See adv., page 544.

STONE CHANNELERS

(See also Quarrying Machinery.)

LEEDS MANUFACTURING CO., Chicago, Ill. See adv., page 545.

PARKER, MELCHER & INGRAHAM, Chicago, Ill. See adv., page 55.

SULLIVAN MACHINERY CO., Chicago, Ill. See adv., page 555.

STONE MACHINERY

(See also Quarrying Machinery.)

LEEDS MANUFACTURING CO., Chicago, Ill. See adv., page 545.

STRUCTURAL METAL WORK

KING BRIDGE CO., Cleveland, Ohio. See adv., page 28.

SURVEYORS' INSTRUMENTS AND SUPPLIES

(See also Mathematical Instruments.)

EUCENE DIETZGEN & CO., Chicago, Ill. See adv., page 7.

W. & L. E. CURLEY, Troy, N. Y. See adv., page 9.

TACKLE BLOCKS

BOSTON & LOCKPORT BLOCK CO., Boston, Mass. See adv., page 17.

CEO. B. CARPENTER & CO., Chicago, Ill. See adv., page 544.

TOOLS

KELLEY, MAUS & CO., Chicago, Ill. See adv., page 5.

THROTTLE VALVES

DETROIT LUBRICATOR CO., Detroit, Mich. See adv., page 40.

TRAMWAYS.

See Cable Tramways.

TRAVELERS

LEEDS MANUFACTURING CO., Chicago, Ill. See adv., page 545.

TRUCK PUMPS

(See also Pumps.)

THE COULDS MANUFACTURING CO., Seneca Falls, N. Y. See adv., page 559.

TUBULAR STEEL BARROWS

(See also Wheelbarrows.)

THE KILBOURNE & JACOBS MANUFACTURING CO., Columbus, Ohio. See adv., page 544.

TURBINE WHEELS

DAYTON CLOBE IRON WORKS CO., Dayton, Ohio. See adv., page 14.

THE JAMES LEFFEL & CO., Springfield, Ohio. See adv., page 542.

TWINES AND CORDAGE

CEO. B. CARPENTER & CO., Chicago, Ill. See adv., page 544.

TYPEWRITERS

WYCKOFF, SEAMANS & BENEDICT, Chicago, Ill. See adv., page 5.

TYPEWRITERS' SUPPLIES

WYCKOFF, SEAMANS & BENEDICT, Chicago, Ill. See adv., page 5.

VALVES

ÆTNA FOUNDRY & MACHINE CO., Springfield, Ill. See adv., page 56.

DETROIT LUBRICATOR CO., Detroit, Mich. See adv., page 549.

SALT LAKE FOUNDRY & MANUFACTURING CO., Salt Lake City, Utah. See adv., page 7.

VENTILATING FANS

CHICAGO WATER MOTOR CO., Chicago, Ill. See adv., page 641.

VENTILATORS

GENERAL ELECTRIC CO., New York City. See adv., page 45.

WATER ENGINES OR MOTORS

(See also Water Wheels.)

CHICAGO WATER MOTOR CO., Chicago, Ill. See adv., page 541.**WATER GAUGES****WILLIAM E. STIEREN,** Pittsburgh, Pa. See adv., page 548.**WATER PIPE****THE MICHIGAN PIPE CO.,** Bay City, Mich. See adv., page 55.**FRANCIS SMITH & CO.,** San Francisco, Cal. See adv., page 15.**A. WYCKOFF & SON,** Elmira, N. Y. See adv., page 15.**WATER PURIFIERS****FIELD FEED WATER PURIFIER CO.,** Chicago, Ill. See adv., page 546.**HOPPES MANUFACTURING CO.,** Springfield, Ohio. See adv., page 544.**KROESCHELLS & BOURCEOIS,** Chicago, Ill. See adv., page 540.**CEO. W. LORD,** Philadelphia, Pa. See adv., page 5.**THE STIRLING CO.,** Chicago, Ill. See adv., page 54.**WATER TUBE BOILERS****THE STIRLING CO.,** Chicago, Ill. See adv., page 54.**WATER WHEELS****CHICAGO WATER MOTOR CO.,** Chicago, Ill. See adv., page 541.**DAYTON CLOBE IRON WORKS CO.,** Dayton, Ohio. See adv., page 11.**THE JAMES LEFFEL & CO.,** Springfield, Ohio. See adv., page 20.**UNION IRON WORKS,** San Francisco, Cal. See adv., page 6.**WATER WORKS****MICHIGAN PIPE CO.,** Bay City, Mich. See adv., page 55.**WELL-DRILLING MACHINERY****WALBURN-SWENSON CO.,** Chicago, Ill. See adv., page 57.**WELL PIPE**

(See also Water Pipe.)

FRANCIS SMITH & CO., San Francisco, Cal. See adv., page 15.**WHEELBARROWS****THE KILBOURNE & JACOBS MANUFACTURING CO.,** Columbus, Ohio. See adv., page 544.**S. D. KIMBARK,** Chicago, Ill. See adv., page 8.**WIRE CLOTH****CLINTON WIRE CLOTH CO.,** Clinton, Mass. See adv., page 25.**EASTWOOD WIRE MANUFACTURING CO.,** Belleville, N. J. See adv., page 25.**GILBERT & BENNETT MANUFACTURING CO.,** New York and Chicago. See adv., page 57.**HOWARD & MORSE,** New York City. See adv., page 57.**THE PHOENIX WIRE WORKS,** Detroit, Mich. See adv., page 57.**WALBURN-SWENSON CO.,** Chicago, Ill. See adv., page 57.**WIRE FENCING****KANSAS CITY METAL ROOFING & CORRUGATING CO.,** Kansas City, Mo. See adv., page 2.**WIRE ROPE**

(See also Wire Cloth.)

C. W. BADGLEY & CO., Detroit, Mich. See adv., page 10.**CEO. B. CARPENTER & CO.,** Chicago, Ill. See adv., page 14.**OSTERLOH SUPPLY CO.,** Pittsburgh, Pa. See adv., page 541.**WOOD STEAM-PIPE COVERING****MICHIGAN PIPE CO.,** Bay City, Mich. See adv., page 55.**A. WYCKOFF & SON,** Elmira, N. Y. See adv., page 15.**WOOD WATER-PIPE****MICHIGAN PIPE CO.,** Bay City, Mich. See adv., page 55.**A. WYCKOFF & SON,** Elmira, N. Y. See adv., page 15.

Mining Laws

(1)

THE UNITED STATES OF AMERICA AND REGULATIONS THEREUNDER

1892

SECTION 205. MINERAL LANDS RESERVED. The lands which are valuable for minerals shall be reserved from sale, except as otherwise expressly directed by law, (July 1890, ch. 106, § 1, 2, p. 58.)

SEC. 206. MINERAL LANDS OPEN TO PUBLIC SALE. (July 1890, ch. 106, § 1, 2, p. 58.) All valuable mineral deposits in lands belonging to the United States, both surveyed and unsurveyed, are hereby declared to be free and open to exploration and purchase, and the lands in which they are found to occupation and purchase, by citizens of the United States and those who have declared their intention to become such, under regulations prescribed by law, and according to the local customs or rules of miners in the several mining districts, so far as the same are applicable and not inconsistent with the laws of the United States. (July 1870, c. 115, § 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.)

SEC. 209. LENGTH OF MINING CLAIMS. (July 1870, c. 115, § 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.)

SEC. 210. PROOF OF CITIZENSHIP. Proof of citizenship under this chapter, may consist, in the case of an individual, in his own affidavit thereof, in the case of an association of persons, in the affidavit of their authorized agent, made on his own knowledge, or upon information and belief, and in the case of a corporation organized under the laws of the United States, of any state or territory thereof, by the filing of a copy of their charter or certificate of incorporation. (July 1870, c. 115, § 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407,

in the patent. At the expiration of the sixty days of publication the claimant shall file his affidavit, showing that the plat and notice have been posted in a conspicuous place on the claim during such period of publication. If no adverse claim shall have been filed within the period of publication, the claimant, at the expiration of the sixty days of publication, it shall be assumed that the applicant is entitled to a patent, upon the payment to the proper officer of the mine, and that no adverse claim exists, and thereupon the claimant may thereupon file his affidavit, and the patent shall be issued, except that the applicant has failed to comply with the terms of this chapter. [10 May, 1872, c. 152, § 6, U. S. 9, 12.]

SEC. 2326. ADVERSE CLAIM. PLACER CLAIMS, ETC. Where an adverse claim is filed within the period of publication, it shall be upon oath of the person or persons making the same, and shall show the nature, homogeneity, and extent of such adverse claim, and all proceedings, except the publication of notice and making the filing of the affidavit as aforesaid, shall be taxed until the controversy shall have been settled or decided by a court of competent jurisdiction, at the adverse claimant's expense. It shall be the duty of the adverse claimant, within thirty days after filing his claim, to commence proceedings in a court of competent jurisdiction, to determine the question of the right of possession, and to prosecute the same with reasonable diligence to final judgment, and a failure so to do shall be a waiver of his adverse claim. After such judgment shall have been rendered, the party entitled to the possession of the claim, or any portion thereof, may, without giving further notice, file a certified copy of the judgment roll with the register of the land-office, together with the certificate of the surveyor-general that the requisite amount of labor has been expended, and the certificate of the surveyor-general that the description required in other cases, and shall pay to the receiver \$5 per acre for his claim, together with the proper fees, whereupon the whole proceedings and the judgment roll shall be certified by the land-office to the commissioner of the general land-office, and a patent shall issue thereon for the claim, or such portion thereof as the applicant shall appear from the decision of the court, to be rightly possessed. If it appears from the decision of the court that several parties are entitled to separate and distinct portions of the claim, each party may pay for his portion of the claim with the proper fees, and file the certificate and description by the surveyor-general, whereupon the register shall certify the proceedings and judgment roll to the commissioner of the general land-office as in the preceding case, and patents shall issue to the several parties according to their respective rights. Nothing herein contained shall be construed to prevent the alienation of a title conveyed by a patent for a mining claim to any person whatever. [10 May, 1872, c. 152, § 7, U. S. 9, 12.]

SEC. 2327. DESCRIPTION OF MINERAL CLAIMS OF SURVEYED AND UNSURVEYED LANDS. The description of vein or lode claims, upon surveyed lands, shall designate the location of the claim with reference to the line of the surveyed lands, and, in no case, the boundaries of the claim, or any portion thereof, shall be required for claims upon unsurveyed lands, the surveyor-general, in extending the surveys, shall adjust the same to the boundaries of such patented claim, according to the plat or description thereof, but so as not to interfere with or change the location of any such patented claim. [10 May, 1872, c. 152, § 8, U. S. 9, 12.]

SEC. 2328. PENDING APPLICATIONS, EXISTING RIGHTS. Applications for patents for mining claims made and not yet patented may be prosecuted to final decision in the general land-office, but in such cases where adverse rights are not affected thereby, patents may issue in pursuance of the provisions of this chapter, and the patents for mining claims upon veins or lodes heretofore issued shall convey all the rights and privileges conferred by this chapter, where no adverse rights existed on the 10th day of May, 1872. [10 May, 1872, c. 152, § 9, U. S. 9, 12.]

SEC. 2329. CONFORMITY OF PLACER CLAIMS TO SURVEYS. CLAIM OF CLAIMS usually called "placers," including all forms of deposit, excepting veins of quartz, or other rock in place, shall be subject to entry and patent, under like circumstances, and conditions, as placer claims upon unsurveyed lands, but the vein or lode claims, but where the lands have been previously surveyed by the United States, the entry in its exterior limits shall conform to the legal subdivisions of the public lands. [10 May, 1872, c. 152, § 10, U. S. 9, 12.]

SEC. 2330. SEPARATION OF MINERAL TRACTS, MAXIMUM OF PLACER LOCATIONS. Legal subdivisions of forty acres may be subdivided into ten-acre tracts, and two or more persons, or associations of persons, having no intervening claims of any size, although such claims have been entered with or without joint entry thereon, but no location of a placer claim, made after the 10th day of July, 1870, shall exceed one hundred and sixty acres for any one person or association of persons, which location shall conform to the legal subdivisions of the public lands in this section contained shall defeat or impair any bona fide pre-emption or homestead claim upon agricultural lands, or authorize the sale of the improvements of any bona fide settler to any purchaser. [10 May, 1872, c. 152, § 11, U. S. 9, 12.]

SEC. 2331. CONFORMITY OF PLACER CLAIMS TO SURVEYS, LIMITATION OF CLAIMS. Where placer claims are upon surveyed land, and conform to legal subdivisions, no further survey of the plat shall be required, and the plat shall be returned after the 10th day of May, 1872, shall conform to the survey as practicable with the United States system of public-land surveys, and the rectangular subdivisions of such surveys, and no such location shall include more than one hundred and sixty acres, but where the plat is not so returned, the plat shall be returned to the surveyor-general, and where by the segregation of mineral lands in any legal subdivision a quantity of agricultural land less than fifty acres remains, such fractional portion of agricultural land may

be entered by any party qualified by law, or by homestead or pre-emption purposes. [10 May, 1872, c. 152, § 12, U. S. 9, 12.]

SEC. 2332. WHAT EVIDENCE OF POSSESSION, ETC., TO ESTABLISH A RIGHT TO A PATENT. Where such person or association of persons or persons, or the proprietors, have held or claimed for a period equal to the time prescribed by the statute of limitations for mining claims of the state or territory where the same may be situated, evidence of such possession and working of the claim for such period shall be sufficient to establish a right to a patent thereon under this chapter, but the absence of any adverse claim, but nothing in this chapter shall be deemed to impair any lien which may have attached in any way whatever to any mining claim or property thereto attached prior to the publication of notice as aforesaid. [10 May, 1872, c. 152, § 13, U. S. 9, 12.]

SEC. 2333. PROCEEDINGS FOR PATENT FOR PLACER CLAIM, ETC. When the same person, association or corporation is in possession of a placer claim, and also a vein or lode included within the boundaries thereof, application will be made for a patent for the placer claim, with the statement that it includes such vein or lode, and in such case a patent shall issue for the placer claim, subject to the provisions of this chapter, including the payment of the same from the payment of \$5 per acre for such vein or lode claim, and twenty-five feet of surface or upland thereon. The remainder of the placer claim, or any placer claim not embracing any vein or lode claim, shall be paid for at the rate of \$2.50 per acre, together with all cost of proceedings; and where a vein or lode, such as is described in Section 2331, is known to exist within the boundaries of a placer claim, an application for a patent for such placer claim which does not include an application for the vein or lode claim shall be construed as a waiver of the right to the vein or lode claim, and the right of possession of the vein or lode claim, but where the existence of a vein or lode in a placer claim is not known, a patent for the placer claim shall convey all valuable mineral and surface included within the boundaries thereof. [10 May, 1872, c. 152, § 14, U. S. 9, 12.]

SEC. 2334. SURVEYOR-GENERAL TO APPOINT SURVEYORS OF MINING CLAIMS, ETC. The surveyor-general of the United States, in each land district containing mineral lands, is hereby appointed surveyor, and shall appoint and direct the survey of mining claims. The expenses of the survey of vein or lode claims, and the survey and subdivision of placer claims into smaller quantities than one hundred and sixty acres, together with the cost of publication of notices, shall be paid by the applicants, and they shall be at liberty to obtain the same at the most reasonable rates, and they shall also be at liberty to employ any United States deputy surveyor to make the surveys. The commissioner of the general land-office shall also have power to establish the maximum charges for surveys and publication of notices under this chapter; and, in case of excessive charges for publication, he may designate any newspaper published in a land district where mining is situated, or the publication of mining notices in such newspaper, and the rates to be charged by such paper, and, to the end that the commissioner may be fully informed on the subject, each applicant shall file with the register a sworn statement of all charges and fees paid by such applicant for publication of notices, together with all fees and money paid the register and the receiver of the land-office, which statement shall be transmitted, with the other papers in the case, to the commissioner of the general land-office. [10 May, 1872, c. 152, § 15, U. S. 9, 12.]

SEC. 2335. VERIFICATION OF AFFIDAVITS, ETC. All affidavits required to be made under this chapter may be verified before any other authorized commissioner within the land district where the claim may be situated, and all testimony and proofs may be taken before any such officer, and when duly certified by the officer taking the same, shall have the same force and effect as if taken before the register and receiver of the land-office. In cases of contest as to the mineral or agricultural character of land, the testimony of the surveyor-general, as provided on personal notice of at least ten days to the opposing party, or if such party cannot be found, then by publication for at least once a week for thirty days in a newspaper, to be designated by the land-office, shall be sufficient evidence of the location of such land, and the register shall require proof that such notice has been given. [10 May, 1872, c. 152, § 16, U. S. 9, 12.]

SEC. 2336. WHAT VEINS INTERFERE, ETC. Where two or more persons or associations of persons, or the proprietors, or the government, and such prior location shall be entitled to all ore or mineral contained within the space of intersection; but the subsequent location shall have the right of way through the space of intersection for the purpose of the conveyance, working of the mine, but where two or more veins, lodes, or veins or lode, and the same may be patented therewith, subject to the same preliminary requirements as to survey and notice as are applicable to veins or lodes; but no location hereafter made of a vein or lode, and such subsequent location shall be made at the same rate as fixed by this chapter for the superficies of the lode. The owner of a quartz-mine or reduction-works, not owning a mine in connection therewith, may also receive a patent for his mill-site, as provided in this section. [10 May, 1872, c. 152, § 17, U. S. 9, 12.]

SEC. 2337. WHAT CONDITIONS OF SALE MAY BE MADE BY LOCAL LEGISLATURE. As a condition of sale, in the absence of necessary legislation by congress, the local legislature of any state or territory may provide rules for working mines, involving

growing upon such lands, and for other purposes: Provided, The provisions of this act shall not extend to railroad corporations.

SEC. 2. That it shall be the duty of the register and the receiver of any local land office in whose district any mineral land may be situated to ascertain from time to time whether any timber is being cut or used upon any such lands, except for the purposes authorized by this act, within their respective land districts; and, if so, they shall immediately report the commission of the general land office of that fact; and all necessary expenses incurred in making such proper examinations shall be paid and allowed such register and receiver in making up their next quarterly accounts.

SEC. 3. Any person or persons who shall violate the provisions of this act, or any rules and regulations in pursuance thereof made by the secretary of the interior, shall be deemed guilty of a misdemeanor, and, upon conviction, shall be fined in any sum not exceeding \$500, and in each case may be added imprisonment for any term not exceeding six months.

Approved June 3, 1878 (20 Stat., 88).

AN ACT to amend Sections 2323 and 2325 of the revised statutes of the United States concerning mineral lands.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That Section 2325 of the revised statutes of the United States be amended by adding thereto the following words: "Provided, that where the claimant for a patent is not a resident of or within the land district wherein the vein, lode, ledge, or deposit sought to be patented is located, the application for patent and the affidavit required to be made by the claimant for such patent may be made by his, her, or its authorized agent, where said agent is conversant with the facts sought to be established by said affidavits: And provided, that this section shall apply to all applications now pending for patents to mineral lands."

SEC. 2. That Section 2323 of the revised statutes of the United States be amended by adding the following words: "Provided, that the period within which the work required to be done annually on all unpatented mineral claims in Congress assembled, that is, on January succeeding the date of location of such claim, and this section shall apply to all claims located since the 10th day of May, Anno Domini 1872."

Approved January 22, 1880 (21 Stat., 41).

AN ACT to amend Section 2326 of the revised statutes relating to suits at law abetting the title to mining claims.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That if, in any action brought pursuant to Section 2326 of the revised statutes, title to the ground in controversy shall not be established by either party, the jury shall find, and judgment shall be entered according to the verdict. In such case costs shall not be allowed to either party, and the claimant shall not proceed in the land office or be entitled to a patent for the ground in controversy until he shall have perfected his title.

Approved March 3, 1881 (21 Stat., 365).

AN ACT to amend Section 2326 of the revised statutes, in regard to the mineral lands, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the adverse claim required by Section 2326 of the revised statutes may be verified by the oath of any duly authorized agent or attorney-in-fact of the adverse claimant cognizant of the facts stated, and the adverse claimant, if residing or in the town being beyond the limits of the district wherein the claim is situated, may make the oath to the adverse claim before the clerk of any court of record of the United States or the state or territory where the adverse claimant may then live, or before any notary public of such state or territory.

SEC. 2. That applicants for mineral patents, if residing beyond the limits of the district wherein the claim is situated, may make any oath or affidavit required for proof of citizenship before the clerk of any court of record, or before any notary public of any state or territory.

Approved April 26, 1882 (22 Stat., 40).

AN ACT to exclude the public lands in Alabama from the operation of the laws relating to mineral lands.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That within the State of Alabama, in Congress assembled, That the public lands shall be subject to disposal only as agricultural lands. Provided, however, That all lands which have heretofore been reported to the general land office as containing coal and iron shall not be offered at public sale, and provided further, That no bona fide entry under the provisions of the homestead law of lands within said state heretofore made may be patented without reference to an act approved May 10, 1872, entitled "An act to promote the development of the mining resources of the United States," in cases where the persons making application for such patents have in all other respects complied with the homestead law relating thereto.

Approved March 3, 1882 (22 Stat., 187).

AN ACT providing a civil government for Alaska.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

SEC. 1. That the Territory of Alaska, whether incorporated or not, and the United States land office for said district is hereby located at Sitka. The commissioner provided for by this act to reside at Sitka shall be an officer, register of said land office, and the clerk provided for by this act shall be the collector of said district, and the register shall be provided for by this act to survey the general land office of said district, and the laws of

the United States relating to mining claims, and the rights incident thereto, shall, from and after the passage of this act, be in full force and effect in said district, under the administration thereof, for the subject of such regulations as may be made by the secretary of the interior, approved by the president: Provided, That the Indians or other persons in said district shall not be disturbed in the possession of any lands actually in their use or occupation, or not claimed by them, but the terms under which such persons may acquire title to such lands is reserved for future legislation by congress. And provided further, That parties who have located mines or mineral privileges thereon under the laws of the United States applicable to the public domain, or who have occupied and improved lands under the ownership over such claims, shall not be disturbed thereon, but shall be allowed to perfect their title to such claims by payment as aforesaid. And provided also, That the land, not exceeding six hundred and forty acres, at any station now occupied as missionary stations among the Indian tribes in said section, with the improvements thereon erected by or for such societies, shall be continued in the occupancy of the several religious societies to which said missionary stations respectively belong, until action by congress. But nothing contained in this act shall be construed to put in force in said district the general land laws of the United States.

Approved May 17, 1884 (23 Stat., 24).

AN ACT making appropriations for sundry civil expenses of the government for the fiscal year ending June 30, 1891, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, *

No person who shall, after the passage of this act, enter upon any of the public lands with a view to occupation, entry or settlement under any of the land laws shall be permitted to acquire title to more than three hundred and twenty acres in the aggregate, under all of said laws, but this limitation shall not operate to curtail the right of any person who has heretofore made entry or settlement under any of the land laws, or whose occupation, entry or settlement is validated by this act. Provided, That in all patents for lands heretofore taken up under any of the land laws of the United States or on entries or claims validated by this act, west of the one hundredth meridian, it shall be expressed that there is reserved from the lands in said patent a described right of way thereon for ditches or canals constructed by the authority of the United States.

Approved August 30, 1890 (26 Stat., 371).

AN ACT to repeal timber-entire laws, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

SEC. 1. That town lots, or lots, or whose occupation, entry or settlement is validated by this act. Provided, That in all patents for lands heretofore taken up under any of the land laws of the United States or on entries or claims validated by this act, west of the one hundredth meridian, it shall be expressed that there is reserved from the lands in said patent a described right of way thereon for ditches or canals constructed by the authority of the United States.

SEC. 17. That town lots, or lots, or whose occupation, entry or settlement is validated by this act. Provided, That in all patents for lands heretofore taken up under any of the land laws of the United States or on entries or claims validated by this act, west of the one hundredth meridian, it shall be expressed that there is reserved from the lands in said patent a described right of way thereon for ditches or canals constructed by the authority of the United States.

Approved March 3, 1891 (26 Stat., 1076).

MINERAL LANDS OPEN TO EXPLORATION, OCCUPATION AND PRIOR RIGHTS.

1. It shall be perceived that by the foregoing provisions of law the mineral lands in the public domain, surveyed or unsurveyed, shall be open to exploration, occupation, entry or settlement by the United States and all those who have declared their intentions to become such.

STATES OF LODGE CLAIMS LOCATED PRIOR TO MAY 10, 1872.

2. By an examination of the several sections of the revised statutes of the United States it shall be perceived that the laws relating to the 10th of May, 1872, is not changed with regard to their extent along the side of width of surface.

3. Mining rights acquired under such previous locations are, however, enlarged by such revised statutes in the following respect, *viz.*: The locators of all such previously taken veins or lodes, their heirs and assigns, so long as they comply with the laws of Congress, and with such territorial laws recently enacted, not in conflict therewith, governing mining claims, are invested with the exclusive possessory right of all the surface included within the lines of their locations and of all veins, lodes or ledges which extend from their top of apex or apex or apex on one side of such surface lines extended downward vertically, although such veins, lodes or ledges may so far depart from a perpendicular in their course downward as to extend outside the vertical surface line, so continued, and their own direction, that is provided, however, that the right of possession to such outside parts of said veins or ledges shall be confined to such portions thereof as lie between vertical planes drawn downward, as aforesaid, through the end-lines of their lodes, so continued in their own direction that such planes will intersect such exterior parts of such veins, lodes or ledges; no right being granted, however, to the claimant of such outside portion of a vein or lode to enter upon the surface location of another claimant.

4. It is to be distinctly understood, that the law limits the possessory right to veins, lodes or ledges, other than the one named in the original location, to such as were not adversely claimed on May 10, 1872, and that where such other vein or lode was adversely claimed at that date, the right of the party so adversely claiming is in no way impaired by the provisions of the revised statutes.

5. In order to hold the possessory title to a mining claim located prior to May 10, 1872, and for which a patent has not been issued, the law requires that \$10 shall be expended annually in labor or improvements on each claim of one hundred feet on the course of the vein or lode until a patent shall have been issued therefor, but where a number of claims are held in common, and upon the same vein or lode, the aggregate expenditure that would be necessary to hold all the claims, at the rate of \$10 per hundred feet, may be made upon any one claim, a failure to comply with this requirement in any one year subjecting the claim to such failure occurring in the location of other claims, the same as if no previous location thereof had ever been made, unless the claimants under the original location shall have resumed work thereon after such failure and before such re-location. The first annual expenditure upon claims of the kind so should have been performed subsequent to May 10, 1872, and prior to January 1, 1875. From and after January 1, 1875, the required amount must be expended annually until patent issues. By reason of the limitation of the amount of the expenditure, the \$10, 1872, such annual expenditures are not required subsequent to entry, the date of issuing the patent certificate being the date contemplated by statute.

6. Upon the failure of any one of several co-owners of a vein, lode or ledge, which has not been entered, to contribute his proportion of the expenditures necessary to hold the claim of claims so held in ownership in common, the co-owners who have performed the labor or made the improvements as required by said revised statutes, may, at the expiration of the year, give such delinquent co-owner personal notice in writing of notice by publication in the newspaper published nearest the claim for at least once a week for ninety days, and if, upon the expiration of ninety days after such notice is so giving or upon the expiration of one hundred and eighty days after the first newspaper publication of notice, the delinquent co-owner shall have failed to contribute his proportion to meet such expenditures or improvements, his interest in the claim by him so passed on to the co-owners who have made the expenditures or improvements as aforesaid. Where a claimant alleges ownership of a forfeited interest under the foregoing provision, the sworn statement of the publisher as to the facts of publication, giving dates and a printed copy of the notice published, should be furnished, and the claimant must swear that the delinquent co-owner failed to contribute his proper proportion within the period fixed by the statute.

PAVEMENTS FOR VEINS OR LODES HEREIN REFERRED TO

7. Rights under patents for veins or lodes heretofore granted under previous legislation of Congress are enlarged by the revised statutes so as to invest the patentee, his heirs or assigns, with the right of all veins, lodes or ledges which extend from the top of apex of which lies within the end and side boundary lines of his claim on the surface, as patented, extended downward vertically, although such veins, lodes or ledges may so far depart from a perpendicular in their course downward as to extend outside the vertical side lines of the claim on the surface. The right of possession to such outside parts of such veins or ledges to be confined to such portions thereof as lie between vertical planes drawn downward, as aforesaid, through the end-lines of their lodes, so continued, and their own direction, that is provided, however, that the right of possession to such exterior parts of such veins or ledges, if being expressly provided, however, that all veins, lodes or ledges, the top of apex of which lies inside such surface locations, other than the one named in the patent, which were adversely claimed on the 10th of May, 1872, are excluded from such conveyance by patent.

8. Applications for patents for mining claims pending at the date of the act of May 10, 1872, shall be subject to final decision in the general land office, and where no adverse rights are affected thereby patent will be issued in pursuance of the provisions of the revised statutes.

MANNER OF LOCATING CLAIMS ON VEINS OR LODES AFTER MAY 10, 1872.

9. From and after the 10th of May, 1872, any person who is a citizen of the United States, or who has declared his intention to become a citizen, may locate, record and hold a mining claim of fifteen hundred feet along the course of any mineral vein

or lode subject to location, or an association of persons, severally qualified as above, may make point location of such claim of fifteen hundred feet, but in no event can a location of a vein or lode made subsequent to May 10, 1872, exceed fifteen hundred feet along the course thereof, and there shall be the number of persons composing the association.

10. With regard to the extent of surface ground adjoining a vein or lode and claimed for the enjoyment working thereon, the revised statutes provide that the lateral extent of locations of veins or lodes made after May 10, 1872, shall in no case exceed three hundred feet on each side of the middle of the vein at the surface, and that no such surface rights shall be limited by any such limitation, but be less than that amount, if the middle of the middle of the vein at the surface, except where adverse rights existing on the 10th of May, 1872, may render such limitation necessary, the end-lines of such claims to be in all cases parallel to each other. Such lateral measurements cannot be taken and beyond three hundred feet on either side of the middle of the vein at the surface, or such distance as is allowed by local laws. For example, Four hundred feet cannot be taken on one side and two hundred feet on the other. If, however, three hundred feet on one side of the vein, and by reason of prior claims but one hundred feet can be taken on one side, the locator will not be restricted to less than three hundred feet on the other side, and when the locator does not determine by exploration where the middle of the vein is, his discovery shaft must be assumed to mark such point.

11. By the foregoing it will be perceived that no lode claim located after the 10th of May, 1872, can exceed a parallelogram fitted and bounded by the following lines: A line, extending along the surface ground of that width taken depends upon the local regulations of state or territorial laws in force in the several mining districts, and that no such local regulations of state or territorial laws shall limit the width of the claim to less than fifteen hundred feet along the course thereof, whether the location is made by one or more persons, nor can surface rights be limited to less than fifty feet in width, unless adverse claims existing on the 10th of May, 1872, render such lateral limitation necessary.

12. It is provided by the revised statutes that the miners of each district may make rules and regulations not in conflict with the laws of the United States or of the State or territory in which such district is located, and are required to station, according to the number of proceeding claim and amount of work necessary to hold possession of a claim. They likewise are to mark that location shall be distinctly marked on the ground that its boundaries may be ascertained, and also a very important and, and a very important, cannot exercise too much care in marking their locations at the outset, inasmuch as the law requires that all records of mining locations made subsequent to May 10, 1872, shall contain the name or names of the locators, the date of location, and a description of the nature of the claim, together with a statement of the natural object of permanent monument, as well identify the claim.

13. The statutes provide that no lode claim shall be recorded until after the discovery of a vein or lode within the limits of the claim, and that the discovery of which may be in the lode, or the appropriation of presumed mineral ground for speculative purposes to the exclusion of bona fide prospectors, before sufficient work has been done to determine whether a vein or lode really exists.

14. The claimant should, therefore, prior to locating his claim, unless the vein can be traced upon the surface, sink a shaft or run a tunnel or drift, to a sufficient depth therein to discover and develop a mineral bearing vein, lode or ore, and should determine its position, the general course of such vein, in either direction from the point of discovery, by which direction he will be governed in marking the boundaries of his claim on the surface. His location notes should give the course and distance nearly as practicable from the discovery shaft of the claim, to some permanent, well known points of objects, such, for instance, as stone monuments, blazed trees, the confluence of streams, point of intersection of well known gulches, ranges of rocks, prominent bluffs, full crops of timber, and the like, and also a vein or lode and which will serve to perpetuate and fix the limits of the claim and render it susceptible of identification from the description thereof given in the record of locations in the district, and which may be referred to by the locator.

15. In addition to the foregoing data, the claimant should state the names of adjoining claims or, if none, add, the relative positions of the nearest claims, should drive a post or erect a monument on each corner of the claim, and should also, from the point of discovery or discovery shaft, should, by a post, stake or board, upon which should be designated the name of the lode, the name or names of the locators, the number of feet claimed, and in which direction the claim extends, and should also state that the location notes should be recorded, in addition to the foregoing description, should state whether the nature of claim of fifteen hundred feet is taken on one side of the point of discovery or whether it is partly upon one and partly upon the other side thereof, and, in the latter case, how many feet on each side of such discovery point.

16. Within a reasonable time, say twenty days, after the location shall have been marked on the ground of such claim is at the time of the location, the locators, as well as the person describing the claim in manner aforesaid, should be held to record in the proper record of the district, who will the proper issue the usual certificate of location.

17. In order to hold the possessory right to a location made since May 10, 1872, not less than store of labor must be performed or improvements made thereon annually, and entry shall have been made. Under the provisions of the act of Congress approved July 1, 1870, the first year of the location, the first year, and must be performed during the calendar year succeeding that in which the location was made. The expenditure of labor

performed prior to the 1st day of January succeeding the date of location will not be considered as a part of or applied upon the first annual expenditure required by law. Failure to make the expenditure or perform the labor required will subject the claim to re-location by any other party having the necessary qualifications, unless the original locator, his heirs, assigns or legal representatives, have resumed work thereon after such failure and before such re-location.

18. The expenditures required upon mining claims may be made from the surface or in running a tunnel for the development of such claims, the act of February 11, 1875, providing that where a person or company has or may run a tunnel for the purpose of developing a lode or vein, or as part of a company, the money so expended in said tunnel shall be taken and considered as expended on said lode or lodes, and such person or company shall not be required to perform work on the surface of said lode or lodes in order to hold the same.

19. The importance of attending to these details in the matter of location, labor and expenditure will be the more readily perceived when it is understood that a failure to give the subject proper attention may invalidate the claim.

TUNNEL RIGHTS.

20. Section 2323 provides that where a tunnel is run for the development of a vein or lode, or for the discovery of mines, the owners of such tunnel shall have the right of possession of all veins or lodes within three thousand feet from the face of such tunnel, on the line thereof, not previously known to exist, discovered in such tunnel, except as it is discovered from the surface; and locations on the line of such tunnel of veins or lodes not appearing on the surface, made by other parties after the commencement of the tunnel, and while the same is being prosecuted with diligence, shall be invalid; but failure to prosecute the work on the tunnel for six months, shall be considered as an abandonment of the right to all undiscovered veins or lodes on the line of said tunnel.

21. The effect of this is simply to give the proprietors of a mining tunnel run in good faith the possessory right to fifteen hundred feet of any blind lodes cut, discovered or intersected by such tunnel, which were not previously known to exist, within three thousand feet from the face or point of commencement of such tunnel, and to prohibit other parties, after the commencement of the tunnel, from prospecting for and making locations of lodes on the line thereof and within said distance of three thousand feet, unless such lodes appear upon the surface or were previously known to exist.

22. The term "face," as used in said section, is construed and held to mean the first working-face formed in the tunnel, and to signify the point at which the tunnel actually enters cover; if, however, from this point the tunnel is not prosecuted to be completed, upon which prospecting is prohibited as aforesaid.

23. To avail themselves of the benefits of this provision of law, the proprietors of a mining tunnel will be required, at the time the tunnel enters the surface, to give notice of such location, and location by erecting a substantial post, board or monument at the face or point of commencement thereof, upon which should be posted a good and sufficient notice, giving the names of the parties or company claiming the tunnel-right, the actual or proposed course, direction of the tunnel, the height and width thereof, and the course and distance from such face or point of commencement to some permanent, well-known objects in the vicinity by which to fix and determine the locus in manner hereinafter set forth applicable to locations of veins or lodes, and at the time of posting such notice they shall, in order that miners or prospectors may be enabled to determine whether or not they are within the lines of the tunnel, establish the boundary lines thereof, by stakes or monuments, placed along such lines at proper intervals, to the terminus of the three thousand feet from the face or point of commencement of the tunnel, and the lines so marked will define and govern as to the specific boundaries within which prospecting for lodes not previously known to exist is prohibited, while work on the tunnel is being prosecuted with reasonable diligence.

24. At the time of posting notice and marking out the lines of the tunnel as aforesaid, a full and correct copy of such notice of location defining the face or point of commencement of the tunnel, the mining record of the district, to which notice must be attached the sworn statement or declaration of the owners, claimants or proprietor of such tunnel, setting forth the facts in the case; stating the name and residence of themselves and their predecessors or assigns in interest in prosecuting work thereon, the extent of the work performed, and that it is bona fide their intention to prosecute the work on the tunnel so located and described with reasonable diligence, and of a vein or lode, or the discovery of mines or both, as the case may be. This notice of location must be duly recorded, and with the said sworn statement attached, kept on the recorder's files for future reference.

25. By a compliance with the above conditions, the claimant will be avoided, and the way for the adjustment of legal rights acquired in virtue of said Section 2323 will be made much more easy and certain.

26. This office will take particular care that no improper and unfair use be taken of this provision of law by parties claiming or professing to make tunnel locations, ostensibly for the purposes named in the statute, but really for the purpose of monopolizing the lands lying in front of their tunnels to the detriment of the mining interest, and to the exclusion of bona fide prospectors or miners, but will hold such tunnel claimants to a strict compliance with the terms of the statutes, and a reasonable diligence on their part in prosecuting the work is one of the essential conditions of the location. Neglect to do this will result in the claimant's work being construed as working a forfeiture of their right to all undiscovered veins or lodes on the line of such tunnel.

MANNER OF PROCEEDING TO OBTAIN GOVERNMENT TITLE TO VEIN OR LORE CLAIMS.

27. By Section 2325 authority is given for granting title, for mines by patent from the government, to any person, association or corporation having the necessary qualifications as to citizenship and holding the right of possession to a claim in compliance with law.

The claimant is required in the first place to have a correct survey of his claim made under authority of the surveyor-general of the state or territory in which the claim lies; such survey to show with accuracy the contour of the claim, the location of such boundaries, are required to be distinctly marked by monuments on the ground. Four plats and one copy of the original field-notes in each case will be prepared by the surveyor-general; one plat and the original field-notes to be retained in the office of the surveyor-general, one copy of the plat to be given the claimant for posting upon the claim, one plat and a copy of the field-notes to be given to the claimant for filing with the proper register, to be finally transmitted by that officer, with other papers in the case, to this office, and one plat to be sent by the surveyor-general to the register of the proper land district to be retained on his files for future reference. As there is no resident surveyor-general for the state of Arkansas, applications for the survey of mineral claims in said state should be made to the commissioner of this office, who, under the law, is ex officio the United States surveyor-general.

28. The claimant is then required to post a copy of the plat of such survey in a conspicuous place upon the claim, together with such notice as is required by law to appear thereon. The notice will give the date of posting, the name of the claimant, the name of the claim, mine or lode; the mining district and county; whether the location is of record, and, if so, where the record is, the location of the claim, and the number of feet claimed, the presumed direction thereof; the number of feet claimed on the lode in each direction from the point of discovery or other well-defined place on the claim; the name or names of adjoining claims, or of the lands or lodes, or, if none adjoin, the names of the nearest claims, etc.

29. After posting the said plat and notice upon the premises, the claimant will file with the proper register and receive a copy of such plat, and the said notice of survey of the claim, returned by the applicant at all least, two credible witnesses, that such plat and notice are posted conspicuously upon the claim, giving the date and place of such posting; a copy of the notice so posted to be attached to and form part of said affidavit.

30. The claimant, in filing the said plat, must be the sworn statement of the claimant that he has the possessory right to the premises therein described, in virtue of a compliance by himself and by his grantors, if he claims by purchase with the mining laws of the United States, and existing laws of the state or territory in which the claim lies, and with the mining laws of congress, such sworn statement to narrate briefly, but as clearly as possible, the facts constituting such compliance, the origin of his property, and the facts and laws by which he claims.

31. This affidavit should be supported by appropriate evidence from the mining recorder's office as to his possessory right, as follows, viz.: Where he claims to be the locator, or a locator in company with others who have since conveyed their interest in the claim to him, a full and correct copy of such location should be furnished, as the same appears upon the mining records, such copy to be attested by the seal of the recorder, or, if he has no seal, then he should make oath to the same being correct, as shown by his records. Where the applicant claims, as a purchaser for valuable consideration, a copy of the location record must be filed under seal or upon oath as aforesaid, with an abstract of title from the proper recorder, under seal or oath as aforesaid, brought down as near as practicable to date of filing the application, tracing the title of possession by a continuous chain of conveyance from the original locators to the applicant, also certifying that no conveyances affecting the title to the claim in question appear in the records, his office other than those set out in the foregoing summary abstract.

32. In the event of the mining records in any case having been destroyed by fire or otherwise lost, affidavit of the fact should be made, and secondary evidence of possessory title will be received, and the claimant, in such case, will be required to establish by those of any other parties cognizant of the facts relative to his location, occupancy, possession, improvements, etc.; and in such case of lost records, any deeds, certificates of location or purchase, or other evidence which may be in the claimant's possession and tend to establish his claim, should be filed.

33. Upon the receipt of these papers the register will, at the expense of the claimant who must furnish the agreement of the applicant to publish the notice, and to pay the charges of publication, publish a notice of such application for the period of sixty days in a newspaper published nearest to the claim, and will post a copy of such notice in his office for the period of sixty days, and the notice will be published in the paper ten consecutive insertions are necessary, when in a daily newspaper the notice must appear in each issue for sixty consecutive issues, the first day of issue being excluded in estimating the period of sixty days.

34. The notice so published and posted must be as full and complete as possible, and embrace all the data given in the notice posted upon the claim.

35. Too much care cannot be exercised in the preparation of the notice, as the law is designed to give other than the best of paper "nearest the land" for such purpose when such paper is a newspaper of general circulation, but he will in all cases

Inasmuch as the surveyor-general has no duty to perform in connection with the entry of a placer claim of legal subdivisions, the proof of improvements must show their due to be not less than \$500 and that they were made by the applicant for patent or his grantors. The annual expenditure to the amount of \$500, required by Section 2321, revised statutes, must be made upon placer claims as well as lode claims.

Applicants for patents for placer claim, who are also in possession of a known vein or lode included therein, must state in their application that the placer includes such vein or lode. The published and posted notices must also include such statement. Veins or lode included in placer locations, as claimed by other parties, the fact should be distinctly stated in the application for patent, and in all the notices. But in all cases whether the lode is claimed or excluded, it must be surveyed and marked upon the plat, the field-notes, and the plat and area of the lode claim, claims and the area of the placer separately. It should be remembered that an application which omits to include an application for a known vein or lode therein must be construed as a conclusive declaration that the applicant has no right of possession to the vein or lode. Where there is no known lode or vein, the fact must appear by the affidavit of two or more witnesses.

59. By Section 2320, it is declared that no location of a placer claim, made after July 9, 1870, shall exceed one hundred and sixty acres for any one person or association of persons, which location shall conform to the United States surveys.

60. Section 2331 provides that all placer mining claims located after May 10, 1872, shall conform as nearly as practicable with the United States surveys, and no such locations shall include more than twenty acres for each individual claimant.

61. The foregoing provisions of law are construed to mean that after the 30th day of July, 1872, no location of a placer claim can be made to exceed one hundred and sixty acres, whatever may be the number of locators associated together, or whatever the local regulations of the district may allow, and that from and after May 10, 1872, no location made by an individual or by several individuals, and no location made by an individual or individuals can exceed one hundred and sixty acres, which location of one hundred and sixty acres cannot be made by a less number than eight bona fide locators; and no local laws or mining regulations can restrict a placer location to less than twenty acres, although the locator is not compelled to take so much.

62. The regulations heretofore given as to the manner of marking locations on the ground, and placing the same on record, must be observed in the case of placer locations. The same regulations are applicable to the law requiring, however, that where placer claims are upon surveyed public lands the locations must hereafter be made to conform to legal subdivisions thereof as near as practicable.

The first step in recognizing an application for patent upon a placer claim must be exercised in determining the exact classification of the lands. To this end the clearest evidence of which the case is capable should be presented.

63. If the claim be all placer, and the fact must be stated in the application and corroborated by accompanying proofs; if of mixed placers and lodes, it should be so set out, with a description of all known lodes situated within the boundaries of the claim. A special plat, such as is required by Section 2321, revised statutes, must be furnished as to each lode intended to be claimed. All other known lodes are, by the silence of the applicant, excluded by law from all claim by him, of whatever nature, possessory or otherwise.

64. Section 2325, revised statutes (subsection 7), requires the surveyor to "note in his field-books the true situation of all mines, salt licks, salt springs and mill-sites, which come to his knowledge," also "all water courses over which the lines he runs may pass." Further requires him to "note the quality of the lands." These descriptive notes are required by Subdivision 8 to be incorporated in the plat by the surveyor-general.

65. If these duties have been performed, the public surveys will furnish a ready means to the district officers, and to the claimants in prosecuting their applications. But experience has shown that great neglect has resulted from inattention to the law in this respect, and the regular plats are of very little value in the matter. It will, therefore, be the duty of the deputy surveyors, should at the expense of the parties, make full examination of all placer claims surveyed by them, and duly note the facts as specified in the Law, stating the quality and composition of the soil, the kind and amount of timber and other vegetation, the location and size of streams, and such other matters as may appear upon the surface of the claim. This examination should include the character and extent of all surface and underground workings, whether placer or lode, for mining purposes.

66. In addition to these data, which the law requires to be shown in all cases, the deputy should report with reference to the proximity of centers of trade or residence, about well-known deposits of lode, deposits of coal, and other facts which should be reported as to the use or adaptability of the claim for placer mining, whether water has been brought upon in sufficient quantity to mine the same, or whether it can be procured for that purpose, and, finally, what improvements have been made by the claimant or his grantors for the development of the claim, and their situation and location with respect to the same as applied to.

67. This examination should be reported by the deputy under oath to the surveyor-general, and duly corroborated, and a copy of the same should be furnished with the application for patent to the claim, constituting a part thereof, and included in the oath of the applicant.

68. Applicants for mining entry, whether published or not, must be made to conform to these regulations, with respect to examination as to the character of the land. Entries already

made will be suspended for such additional proofs as may be deemed necessary in each case.

MILL-SITES.

69. Section 2337 provides that "where non-mineral land not contiguous to the vein or lode is used or occupied by the proprietor of such vein or lode for the purpose of mining, such non-adjacent surface ground may be embraced and included in an application for a patent for such vein or lode, and the same may be patented therewith, subject to the same preliminary requirements as to survey and plat as are applicable to lode claims, but in location hereafter made for such non-adjacent land shall exceed five acres, and payment for the same must be made at the same rate as fixed by this chapter for the superlaties of the lode." The owner of a quartz-mill or reduction-works, and owning a vein or lode connected therewith, may also receive a patent for his mill-site, as provided in this section.

70. To avail themselves of this provision of law, parties holding the possessory right to a vein or lode, and to a piece of non-mineral land not contiguous thereto, for mining or milling purposes, not exceeding the quantity allowed for such purpose by Section 2337, United States revised statutes, or prior laws, under which the land was appropriated, the proprietors of such vein or lode may file in the proper land-office their application for a patent, under oath, in manner already set forth herein, which application, together with the plat and field-notes, may include, embrace and describe, in addition to the vein or lode, such non-contiguous mill-site, and after due proceedings as to notice, etc., a patent will be issued covering the same as one claim.

71. In making the survey in a case of this kind, the lode claim should be described in the plat and field-notes as "Sur. No. 37, A," and the mill-site as "Sur. No. 37, B," or whatever may be its appropriate number, and the mill-site should be located by a corner of the mill-site to a corner of the lode claim to be invariably given in such plat and field-notes, and a copy of the plat and notice of application for patent must be conspicuously posted upon the mill-site as well as upon the vein or lode for the statutory period of sixty days. In making the entry no separate receipt or certificate need be issued for the mill-site, but the whole area of both lode and mill-site will be embraced in one entry, the price being \$5 for each acre and fractional part of an acre embraced by such lode and mill-site claim.

72. In case the owner of a quartz-mill or reduction-works is not the owner or claimant of a vein or lode, the law permits him to make application therefor in the same manner prescribed herein for lode claims, and after due notice and proceedings, in the absence of a valid adverse filing, to enter and receive a patent for his mill-site at said price per acre.

73. In every case there must be satisfactory proof that the land claimed is not mineral, is not included in an already issued patent, may, where the matter is unquestioned, consist of the sworn statement of two or more persons capable from acquaintance with the land to testify understandingly.

POSSESSORY RIGHT.

74. With regard to the proofs necessary to establish the possessory right to a mining claim, Section 2332 provides that "where such person or association, they and their grantors, have held and worked the claim for a period equal to the time prescribed by the statute of limitations for mining claims of the state or territory where the same may be situated, evidence of such possession and working of the claims for such period shall be sufficient to establish the right to a patent therefor under this chapter, in the absence of any adverse claim."

75. This provision of law will greatly lessen the burden of proof, more especially in the case of old claims located many years since, the records of which, in many cases, have been destroyed by fire, or lost in other ways during the lapse of time, but concerning the possessory right to which all controversy or litigation has long been settled.

76. When an applicant desires to prove his proof of possessory right to a mining claim, in order to obtain a patent, he will not be required to produce evidence of location, copies of conveyances or abstracts of title, as in other cases, but will be required to furnish a duly certified copy of the statute of limitation of mining claims of the state or territory where the claim is situated, together with a clear and succinct narration of the facts as to the origin of his title, and likewise as to the continuation of his possession of the mining ground covered by his application; the date thereof, the nature and extent of the mining that has been done thereon, whether there has been any opposition to his possession or litigation with regard to his claim, and, if so, when the same ceased, whether such cessation was caused by compromise or by judicial decree, and any addition to said claim or any enlargement thereof having in a different bearing upon his possession and bona fides which he may desire to submit in support of his claim.

77. There should likewise be filed a certificate, under seal of the court having jurisdiction of mining cases within the judicial district embracing the claim, that no suit or action of any character whatever involving the right of possession to any portion of the claim applied for is pending, and that there has been no suit or action of any kind in any court of said claim or any part thereof for a period equal to the time fixed by the statute of limitations for mining claims in the state or territory as aforesaid, other than that which has been finally decided in favor of the claimant.

78. The claimant should support his narrative of facts relative to his possession, occupancy and improvements by corroborative testimony of any disinterested person or persons of credibility who may be cognizant of the facts in the case and are capable of testifying to the truth of the same.

79. As a condition for the making of application for patent according to Section 2335, there must be a preliminary showing of

work or expenditure upon each location, either by showing the full amount sufficient to the maintenance or possession under Section 224 for the pending year, or, if there has been failure, it should be shown that work has been resumed, so as to prevent re-location by adverse parties after abandonment.

The "pending year" means the calendar year in which application is made, and has no reference to showing of work at date of the final order for patent.

75. This preliminary showing may, where the matter is unquestioned, consist of the affidavit of two or more witnesses familiar with the facts.

PROOF OF CITIZENSHIP OF MINING CLAIMANTS.

76. The proof necessary to establish the citizenship of applicants for mining patents must be made in the following manner: In case of an incorporated company, a certified copy of its charter or certificate of incorporation must be filed. In case of an association of persons unincorporated, the affidavit of their duly authorized agent, made upon his own knowledge or upon information and belief, setting forth the residence of each person forming such association, must be submitted. This affidavit must be accompanied by a power of attorney from the parties forming such association, authorizing the person who makes the affidavit of citizenship to act for them in the matter of their application for patent.

77. In case of an individual or an association of individuals who do not appear by their duly authorized agent, one will require the affidavit of each applicant, showing whether he is a citizen or a naturalized citizen, when and where born and his residence.

78. In case an applicant has declared his intention to become a citizen or has been naturalized, his affidavit must show the date, place, and the competent authority, and a certified copy of the form from which his certificate of citizenship issued, and present residence.

79. The affidavit of the claimant as to his citizenship may be taken before the register or receiver of any office or collector authorized to administer oaths within the land district, or if the claimant is residing beyond the limits of the district, the affidavit may be taken before the clerk of any court of record or before any notary public of any State or Territory.

80. If citizenship is established by the testimony of disinterested persons, such testimony may be taken at any place before any person authorized to administer oaths, and whose official character is duly verified.

ADVERSE CLAIMS.

81. Section 526, and the act of April 26, 1882, provide for adverse claims, fix the time within which they shall be filed to have legal effect, and prescribe the laws and regulations governing the same. An adverse mining claim must be filed with the register and receiver of the land office where the application for patent was filed, or with the register and receiver of the district in which the land is situated at the time of the adverse claim.

82. It must be on the oath of the adverse claimant, or it may be verified by the oath of any duly authorized agent or attorney in fact of the adverse claimant, and must of the facts stated.

83. Where an agent or attorney in fact verifies the adverse claim, he must distinctly state that he is an agent or attorney, and accompany his affidavit by proof thereof.

84. The agent or attorney in fact must make the affidavit in verification of the adverse claim within the land district where the claim is so made.

85. The adverse notice must fully set forth the nature and extent of the interference or conflict, whether the adverse party claims as a purchaser for valuable consideration or as a locator. If the former, a certified copy of the original location, the original conveyance, a duly certified copy thereof, or an abstract of title from the office of the proper recorder should be furnished, or, if the transaction was a merely verbal one, he will narrate the circumstances attending the purchase, the date thereof, and the amount paid, which fact is supported by the affidavit of one or more witnesses, if any were present at the time, and if he claims as a locator he must file a duly certified copy of the location from the office of the proper recorder.

In order that the register and receiver of the claim may be shown, it will be incumbent upon the adverse claimant to file a plat showing his entire claim, its relative situation or position with the one against which he claims, and the extent of the conflict. This plat must be accompanied by an affidavit sworn by a United States deputy surveyor, who will officially certify therein to its correctness, and in addition there must be attached to such plat of survey a certificate or sworn statement by the surveyor as to the approximate value of the land returned or value of the rights made by the claim by the adverse party or his predecessors in interest, and the plat must indicate the position of any shafts, tunnels or other improvements, if any, now or ever, upon the claim of the party opposing the application and the party claiming improvements so to make the title clearly defined. That if the application for patent describes the claim by legal subdivisions, the adverse claimant, if also claiming by legal subdivisions, may describe his adverse claim in the same manner without further survey or plat.

86. Upon the foregoing being made within the sixty days as aforesaid, the register, or in his absence the receiver, will give notice in writing to both parties to the contest that such adverse claim has been filed, and that the title thereto will be determined by the adverse claim will be required within thirty days from the date of such filing to commence proceedings in a court of competent jurisdiction to determine the question of right of possession and the ownership of the claim, and the title thereto, and the party claiming and that should such adverse claimant fail to do so, his adverse claim will be considered waived and the application for patent be allowed to proceed upon its merits.

88. When an adverse claim is filed as aforesaid, the register or receiver will endorse upon the same the precise date of filing and hereby be satisfied of the date of notifications issued thereon, and thereafter all proceedings on the application for patent will be suspended, with the exception of the completion of the publication and posting of notices and plat and the filing of the necessary proof, the rest, until the controversy shall have been decided by the court of the adverse claim waived or withdrawn.

89. Where an adverse claim has been filed and suit thereon commenced within the statutory period and final judgment determining the right of possession rendered in favor of the applicant, it will be sufficient for him to file with the register a certificate of the clerk of the court, setting forth the facts as to such judgment, but he must, before he is allowed to make entry, file a certified copy of the judgment, together with the other evidence required by Section 224, revised statutes.

90. Where such suit has been dismissed, a certificate of the clerk of the court to that effect or a certified copy of the order of dismissal will be sufficient.

91. In no case will a relinquishment of the ground in controversy or other proof, filed with the register or receiver, be accepted in lieu of the evidence required.

92. Where an adverse claim has been filed, but no suit commenced against the applicant or patent within the statutory period, a certificate to that effect by the clerk of the State court having jurisdiction in the case, and also by the clerk of the circuit court of the United States for the district in which the claim is situated, will be required.

93. A party who is not an applicant for patent under Section 225, revised statutes, or the assignee of such applicant, is not entitled to make entry under said section and in no case will the name of such party be inserted in the certificate of entry. This requirement shall not extend to the case of joint applicants.

94. Any party applying to make entry as trustee must disclose fully the nature of the trust and the name of the cestui que trust, and such trustee, as well as the beneficiaries, must first make entry as locator, and then as trustee, and the names of both parties as well as that of the trustee, must be inserted in the final certificate of entry.

95. No entry will be allowed within the register has satisfied himself by a careful examination that proper proofs have been made up at the points indicated in official regulations in force and that they show a sufficient bona fide compliance with the laws and such regulations.

96. The administration of the mining laws as prescribed by these regulations will be, so far as applicable, adopted for and extended to Alaska.

97. The ex-officio register, receiver and surveyor general, while acting as such, and their clerks, and deputy surveyors, shall be held responsible for the laws and regulations governing the official conduct and responsibilities of similar officers and persons under general statutes of the United States.

98. The commissioner of the general land office will exercise the same supervisory and enforcement of the laws as is of or may be imposed by him in other mineral districts.

APPOINTMENT OF DEPUTY SURVEYORS OF MINING CLAIMS, CHARGES FOR SURVEYS AND FIELD STATIONS, FEES OF REGISTERERS AND RECEIVERS, ETC.

99. Section 224 provides for the appointment of surveyors of mineral claims, authorizes the commissioner of the general land office to establish the rates to be charged for surveys and for newspaper publications.

Under this authority of law the following rates have been established as the maximum charges for newspaper publications in mining cases:

1. Where daily newspaper is designated, the charge shall not exceed \$2. for each ten lines of space occupied, and where a weekly newspaper is designated as the medium of publication \$2. for the same space will be allowed. Such charges shall be paid in advance of publication or publication, whichever issue of the newspaper to the entire period required by law.

It is expected that these notices shall not be so abbreviated as to curtail the description essential to a perfect notice, and the said rates shall be applied upon the basis of the charges that they are to be in the usual body type used for advertisements.

2. For the publication of citations in contests or hearings involving the character of lands, the charges shall not exceed \$8. for five publications in weekly newspapers or for four publications in daily newspapers for thirty days.

3. The surveyors general of the several districts will, in pursuance of said law, appoint in each land district as many competent deputies for the survey of mining claims as may seek such appointment, it being distinctly understood that all expenses of these notices and surveys are to be borne by the mining claimant and not by the United States, the system of making deposits for mineral surveys, as required by previous instructions, being strictly regarded for work of this character. The claimant, having the option of employing any deputy surveyor within such district to do his work in the field.

4. With regard to the platting of the claim and other work upon the same, the surveyor general will, upon the request and estimate of the cost thereof, which amount the claimant will deposit with any assistant United States treasurer or designated depository in favor of the United States Treasury, to be passed to the credit of the fund created by the annual deposits for the purchase of the public lands, and file with the surveyor general duplicate certificates of such deposit in the usual manner.

5. The surveyor-general will endeavor to appoint mineral deputy surveyors, so that one of them may be available in each district for the greater convenience of the claimant.

6. The usual oaths will be required of these deputies and their assistants as to the correctness of each survey except to the

The duty of the deputy mineral surveyor ceases when he has executed the survey and returned the field-notes and preliminary plat thereof with his report to the surveyor-general. He will not be allowed to execute the final and complete plat, or to sign in support of an application for patent or otherwise, to perform the duties of an attorney before the land office in connection with a mining claim.

The surveyor-general and local land-officers are expected to report any infringement of this regulation to this office.

102. The law requires that each applicant shall file with the register and receiver a sworn statement of all charges and fees paid him for publication of notice and for survey, together with all fees and money paid the register and receiver, when a sworn statement is required to be transmitted to this office for the information of the commissioner.

103. Should it appear that excessive or exorbitant charges have been made by any surveyor or other officer, prompt action will be taken with the view of correcting the abuse.

104. The fees payable to the register and receiver for filing and acting upon applications for mineral land patents are \$5 to each officer, to be paid by the applicant for patent at the time of filing, and the like sum of \$5 is payable to each officer by an adverse claimant at the time of filing his adverse claim. (Section 228, revised statutes, paragraph 1.)

105. All fees or charges under this law may be paid in United States currency.

106. The register and receiver will, at the close of each month, forward to this office an abstract of mining applications filed and a register of receipts, accompanied with an abstract of mineral lands sold and an abstract of adverse claims filed.

107. The fees and purchase money received by registers and receivers must be placed to the credit of the United States in the receiver's monthly and quarterly account, charging up in the disbursements account the amount of the same. The registers may be respectively entitled as fees and commissions, with limitations in regard to the legal maximum.

PROCEEDINGS BEFORE THE REGISTER AND RECEIVER AND SURVEYOR-GENERAL IN CONTESTS AND HEARINGS TO ESTABLISH THE CHARACTER OF CLAIMS.

108. The rules of practice in cases before the United States district land-officers, the general land office, and the department of the interior, approved August 14, 1884, will, as far as applicable, govern in all cases and proceedings arising in contests, and hearings, to determine the mineral or non-mineral character of lands.

109. The only tracts of public lands that will be withheld from entry as agricultural land on account of its mineral character will be such as are returned by the surveyor-general as mineral, and even the presumption which is imported by such return will be overcome by testimony taken at a regular hearing.

110. Hearings to determine the character of land, as practically distinguished, are of two kinds.

111. Where lands which are sought to be entered and patented as agricultural are alleged to be mineral, or to be mineral when sought as mineral their non-mineral character is alleged.

The proceedings relative to this class are in the nature of a contest between two or more known parties.

112. When lands are returned as mineral by the surveyor-general.

When such lands are sought to be entered as agricultural, notice must be given by publication for thirty days, with posting in the local office for the same period.

113. At the hearings under either of the above classes, the claimants and witnesses will be thoroughly examined with regard to the character of the land, whether the same has been thoroughly prospected; whether or not there exists within the tract or tracts claimed any lode or vein of quartz or other rock in place, bearing gold, silver, copper, lead, tin or copper, or other valuable deposit which has ever been claimed, located, recorded or worked; whether such work is entirely abandoned or whether occasionally resumed; if such lode exists, by whom claimed, under what designation, and in which subdivision of the land it lies, whether any placer mine or mines exist upon the land, if so, what is the character thereof; whether of the shallow surface description of the deep vein, or of the lode or gravel deposits; to what extent mining is carried on when water can be obtained, and what the facilities are for obtaining water for mining purposes; upon what particular tract or subdivisions mining has been done, and at what time the land was abandoned for mining purposes, if abandoned at all.

114. The testimony should also show the agricultural capacities of the land, what kind of crops are raised thereon, and the value thereof; the number of acres actually cultivated for crops of cereals or vegetables, and which kind of crops; and whether in any subdivision such crops are raised, also which of these subdivisions embraces the improvements, giving in detail the extent and value of the improvements, such as house, barn, vineyard, orchard, prairie, etc., and mining improvements.

115. The testimony should be as full and complete as possible, and in addition to the leading points indicated above, where an attempt is made to prove the mineral character of lands which have been entered as agricultural land, it should show at what date, if at all, valuable deposit of mineral were first known to exist on the lands.

116. When the case comes before this office, such decision will be made as the law and the facts may justify, and in cases where a survey is necessary to establish the mineral from the agricultural land, the necessary instructions will be given to enable the proper party, at its own expense, to have the work done, at its option, either by United States deputy, county or other local surveyor. The survey where the claim is to be secured, as well as the location of lode claims, must be executed in such manner

as will conform to the requirements in Section 2324, United States revised statutes, as to length and width and parallel end-lines.

117. Such survey when executed must be properly sworn to by the surveyor, either a notary public, officer of a court of record or before the register or receiver, the deponent's character and credibility to be properly certified by the officer administering the oath.

118. Upon the filing of the plat and field-notes of such survey, duly sworn to as above, you will transmit the same to the surveyor-general for his verification and approval; who, if he finds the work correctly performed, will properly mark out the same upon the original township plat in his office, and furnish a duplicate of such plat to the register and receiver, both to the local land-office; and to this office, to be affixed to the duplicate and triplicate township plat respectively.

119. With the copy of plat and description, verified by the local office and this office, must be a diagram tracing, furnished by the surveyor-general, showing the claim or claims segregated, and designating the separate fractional agricultural tracts in each forty-acre legal subdivision by the proper lot number, beginning with No. 1 in each section, and giving the area in acres, lot, and square as provided in Paragraph 15, in the survey of mining claims on surveyed lands.

120. The fact that a certain tract of land is decided upon testimony to be mineral in character is by no means equivalent to a decision of the land to a mineral use. A notice by law to give sixty days' publication of notice, and posting of diagrams and notices, as a preliminary step, and then, before he can enter the land, he must show that the land yields mineral; that he is entitled to the same by discovery, in the case of a claimant in compliance with local customs or rules of miners or by virtue of the statute of limitations; that he or his grantors have expended, in actual labor and improvements, an amount of not less than \$500 thereon, and that the claim is one in regard to which there is no controversy or opposing claim. After all these proofs are met, he is entitled to have a survey made at his own cost where a survey is required, after which he can enter and pay for the land embraced by his claim.

121. Blank forms for proofs in mineral cases are not furnished by the general land-office.

THOMAS H. CARTER, Commissioner.

JOHN W. NOBLE, Secretary.

DECISIONS OF THE SECRETARY OF THE INTERIOR.

MINING CLAIM. PUBLICATION OF NOTICE.

1. The notice of application for mineral patent must be published in the newspaper issued nearest to the claim.

2. The notice of application for mineral patent by publication should be strictly observed in order to give publication.

3. A case cannot properly be referred to the board of equitable adjudication for settlement where no legal notice has been given of the application for patent, as by such omission no opportunity has been given protestants to assert their rights, if they have any. [Rendered February 5, 1892.]

MINING CLAIMS. MILL-SITE IMPROVEMENTS.

1. The erection and maintenance in good faith of dwelling houses for the occupancy of workmen employed for purposes in connection with a mill for the construction of a mill, or the occupancy of the land and as will justify the granting of a mill-site entry of the same.

2. The erection of such houses is clearly a substantial use and improvement of the land. They become a part of the realty and would pass by a conveyance of the land, and when such houses are erected for the accommodation of workmen employed in connection with the mill the land is used for milling purposes. [Rendered February 11, 1892.]

ADVERSE PROCEEDINGS. REGULATIONS.

1. The department of the interior, in the exercise of its discretion, may suspend the regulations in order to avoid the perpetration of injustice or injustice.

2. The failure of an adverse claimant, who appears as a transgressor, to furnish an abstract of title, will not defeat his right to be heard where he has, in good faith, complied with the regulations so far as was possible for him to do so.

3. The omission to file an abstract should be treated as an irregularity and not as a defect that vitates the adverse claim. Where no one is injured by the omission it would be extremely tedious to require a new case for record.

4. The non-compliance in this case was with the requirement of a rule and not a statute, and the rule should not be so strict as to require an impossibility or to work an injustice.

5. In certain circumstances, and in order to avoid an act of injustice by the suspension of its rules, when its discretion may be fairly exercised. [Rendered July 18, 1892.]

SURVEY. OFFICIAL CIRCULAR DEC. 1, 1884.

1. In the survey of a mining claim the end-line must terminate at the point where the mineral lode, in its onward course, or "strike," intersects an angle or some location, and the location, as of December 1, 1881, to this effect are not in conflict with statutory provisions.

2. The right of location upon the mineral lands of the United States is a privilege granted by Congress, but it can only be exercised within the limits prescribed by the grant. A locution can only be made where the law allows it to be done. Any attempt to go beyond that will avail nothing. Hence a re-location on lands actually covered at the time by another valid and subsisting locution is void, and this not only occurred at a prior location, but at all the world, because the law allows no such thing, to be done. [Rendered July 18, 1892.]

DIGESTS OF
 CORPORATION, LIEN AND MINING LAWS
 OF THE
 STATES AND TERRITORIES OF THE UNITED STATES
 1892

of 1997.

COMPILED EXPRESSLY FOR THE MINING DIRECTORY

ALABAMA

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CONCLUSIONS

Code of Virginia, Secs. 1-2 et seq.

Corporations may be formed by two or more persons. A certificate of incorporation shall be filed in the office of the judge of probate of the county where the said corporation shall have its place of business, a declaration signed by each of them, stating:

- Names and residences of subscribers.
- Name and style of the proposed corporation.
- The amount of capital stock and the number of shares in which it is divided.
- The general purposes of the corporation and the nature of the business proposed.
- The principal place of business of the corporation.
- Such other matters as the incorporators may deem desirable to state.

COMMISSION ISSUING. On the filing of the declaration above mentioned the judge of probate must issue a commission to two or more subscribers, who are then authorized to open books of subscription.

SUBSCRIPTIONS TO STOCK. All subscriptions must be paid in money, but the commissioner may receive subscriptions payable in money, the subscriber reserving at the time the privilege of discharging the same in the rendition of services or labor for the corporation at the reasonable value thereof, or of such property as the corporation has the capacity to purchase and hold, and the commissioner may accept of property of such value and character of the property and when it is to be transferred, all of which may be stated in the subscription.

DISCONTINUITY. When fifty percent of the capital stock has been subscribed in good faith by subscribers of whose solvency the commissioners are satisfied, the stock and the subscription together at a time and place fixed by them for the election of directors shall be sold to the highest bidder for cash, not less than three or more than nine stockholders, who hold one for twelve months, at such rate and on such terms, as they may be designated to receive from the commissioners the subscription for stock, and such other stock the company require payment in cash for, and the proceeds of the sale shall be paid to the subscriber who has not received the privilege of discharging such subscription in stipulated services of conveyance of property, and from the subscribers who have reserved the privilege of discharging their subscription in services of property, contracts in writing binding them to the redemption of the services of bank to make good the property at such times as the board of directors may appoint.

The proceedings of the meetings must be reduced to writing, signed by the subscribers and delivered to the commissioners, who must return and file the same with the judge of probate. The original copy of the proceedings will be retained by the clerk of the court, a copy thereof, verified by his affidavit stating in which affidavit from which of the subscribers he has received the cash payment and from which he has received contracts, as above mentioned. This copy must also be filed in the office of the judge of probate. The original copy of these reports the judge of probate shall transmit to the clerk of the court.

POWERS OF CORPORATIONS. 1. To have succession by the corporate name for the period expressed in the declaration and, if a period of time be not expressed, perpetually. 2. To sue and be sued, and, if deemed necessary, to have a corporate seal, and the same to affix at pleasure. 3. To hold, purchase, dispose of, and convey such real and personal property as the nature of its business and the purposes for which it is formed may require. 4. To appoint and employ such agents as may be deemed necessary for the transaction of its business, and the management and control of its affairs and property. 5. To make all lawful by-laws, rules, and regulations for the transaction of its business, the

man, agent, or trustee of its affairs, and the transferee and assignee of its property and for the transfer of its stock, and for the creation and presentation of a lien upon the shares of its stock, holders for the payment of any debt of liability they may incur in any operation, &c. To create a business of accomplishing the purposes of the corporation, and to mortgage, hypothecate, and to mortgage or convey or pledge its property, real or personal, and its franchises, to secure the payment of the money so borrowed, or of any other debt contracted by it, but it has no power to borrow money at a rate of interest exceeding eight per cent. payable semi-annually; nor must such mortgage, conveyance or pledge be made otherwise than by the consent of the holders of the large part in value of the capital stock, expressed by vote, at a meeting of the stockholders, called for that purpose, and duly advertised by public notice, and of the purpose for which it is called, thirty days' notice is given to each stockholder personally, whose residence is known, and by publication for four consecutive weeks in the registered newspaper published nearest the place of business of the corporation.

[illegible]

CROSSING PUBLIC ROADS, STREAMS, NAVIGABLE WATERS. Corporations, in construction of their railroads, highways or roads, may cross public highways or roads, but not at place where in satisfactory condition. They may likewise cross any navigable streams, but must not impair navigation.

CONSOLIDATION OF MINING AND QUARRIES, GEORGIA.—Any two or more may consolidate, upon the unanimous vote of the board of directors of each incorporation in writing, the adopted articles of incorporation and the by-laws. When the proposition of consolidation has been adopted, and the stockholders of each corporation have assented to the consolidation, the stockholders of each corporation may proceed to writing under the corporate seals, stating the consolidation to be with the consent of the stockholders, and its terms and conditions, such agreement must be recorded in the office of the county clerk of the county in which the corporations are located, and such recordation can then be completed.

NAME AND CHARTER OF NEW CORPORATION.—The consolidated corporation may adopt the name and charter of either corporation, and may make such changes as to amount of stock and directors as may be deemed proper.

PRIORITY OF LIENS AND LIABILITIES OF NEW CORPORATION.—The consolidated corporation is entitled to all the property and rights of each, and liable for the debts of each, and pending suits shall proceed in the name of the consolidated corporation.

BOARD OF DIRECTORS.—Are elected annually by the stockholders. Vacancies are filled by the board of directors.

INCREASE OF CAPITAL STOCK.—Capital stock may be increased to a sum not exceeding ten million dollars, by the stockholders holding the larger amount in value of the capital stock. Thirty days' notice of a meeting called for this purpose must be given each stockholder personally, and by publication in a newspaper published in the place where the corporation is located. The proceedings of the meeting, signed by the president, must be filed and recorded in the office of judge of probate. Stockholders are entitled to a preference in taking the increased stock.

MAY ALTER OR AMEND THE CHARTER.—Corporations may, by vote of not less than three-fourths of the stockholders, holding not less than two-thirds in value of the stock, alter or amend the charter by filing, in the office of the judge of probate where the original declaration is filed, a declaration in writing, signed by the stockholders, setting forth the name of the corporation, and business, capital stock subscribed for and taken, and the proposed changes, which declaration must be verified by affidavit of one of the signers, stating that the statements of the declaration are true, and that the signers signed the same in the presence of each other, or acknowledged their signatures thereto. Upon the filing of such declaration the judge of probate issues a certificate authorizing the corporation to do business under the amended declaration. (Acts of Alabama, 1887, p. 30.)

MAY HOLD STOCKHOLDERS' AND DIRECTORS' MEETINGS IN OTHER STATES OF THE UNION.—Meetings may be held in other states by a vote, at a meeting of the directors or stockholders, whenever all of the Alabama stockholders are present in writing, and provided such corporation shall keep an office, agent and place of business within the state, and within thirty days after such meeting shall deposit with such agent a certified copy of the proceedings of such meeting, which certified copy shall be received in evidence in all courts in this state, in lieu of the original, and which certified copy shall at all times be subject to inspection by any person lawfully entitled to demand such inspection. Failure to keep such certified copy on deposit is cause for proceedings to dissolve the corporation.

There must also be filed in the office of the judge of probate in the county where its agent and principal place of business are kept, a declaration showing the name and style of such agent, and the place where certified copies of its acts are kept. Service of process on such agent shall be deemed and taken as service of process on the corporation. (Acts of Alabama, 1888, 89, c. 76.)

LEGAL SERVICE OF PROCESS is obtained against a corporation by leaving copies of writs with the president or other head thereof, secretary or agent. (Code of Alabama, Sec. 267.)

Stockholders are personally liable only for amount of unpaid subscription on stock. (Constitution of Alabama, p. 47, Sec. 1.)

FOREIGN CORPORATIONS.—A foreign corporation shall do any business in this state without having at least one known place of business and an authorized agent or agents therein, and such corporation may be sued in any county where it does business by service of process upon an agent anywhere in this state. (Constitution of Alabama, p. 47, Sec. 1.)

An instrument in writing under the seal of the company, signed officially by the president and secretary, designating at least one known place of business, and an authorized agent, must be filed in the office of the secretary of state at Montgomery, and changes of agents must in like manner be filed. Any person acting for such corporation before compliance with this act is subject to a penalty of \$500, and any company so transacting business within the state before compliance with this act is subject to a penalty of \$1,000. (Acts of Alabama, 1886, 87, p. 102.)

LIENS.

LIENS OF MECHANICS AND MATERIAL-MEN.—Under Sec. 405, code of Alabama, of 1894, and as amended by acts of 1890, 91, page 575, are governed as follows:

LIENS DECLARED.—Every mechanic, firm, association, corporation or other person furnishing labor or material for any building or improvement or utility on land by contract with the owner, his agent or contractor or sub-contractor, has a lien on such and on the land improved thereby to the extent of the amount of the contract. This lien shall extend to the contractor for work or material shall extend only to the unpaid balance due the contractor, if the owner shall before payment demand a list of the persons furnishing labor or materials, with the terms and place thereof, which list shall be signed by the contractor, and shall be a proper credit on the contract. Failure to demand such list subjects the property to a lien for the full amount due to material-men and employees from the contractor. Failure by the contractor to furnish such list as required subjects the property to a lien for the full amount due to laborers and employees from the contractor. Failure by the contractor to furnish such list as required subjects the property to a lien for the full amount due to laborers and employees from the contractor. Failure by the contractor to furnish such list as required subjects the property to a lien for the full amount due to laborers and employees from the contractor. Failure by the contractor to furnish such list as required subjects the property to a lien for the full amount due to laborers and employees from the contractor.

LIEN ENFORCEMENT.—Statement of the amount due to laborers and material-men furnished must be filed in the office of judge of probate within ninety days from the last day on which labor was performed or material furnished, and suit to enforce the lien must be brought within six months thereafter.

NOTICE TO OWNER.—Any person having a lien under this statute shall give notice to the owner, ten days before filing his

lien, that he looks to the building or improvement for the payment of his claim.

PRIORITY OF LIENS.—Such lien has a priority over all other liens, mortgages or incumbrances on the land subsequently created, and as to buildings or improvements shall have priority whether such mortgage or incumbrance was subsequently created or existing at the time of the performance of the labor or furnishing of the material, and it may be enforced by the sale of such building or improvement, which may be removed by the purchaser.

HOW SUITS ARE BROUGHT.—In suits brought to enforce a lien the pleadings must contain a description of the property on which the lien is claimed, and such other facts necessary to entitle the plaintiff to the lien and the enforcement thereof. Publication shall be made as to non-residents upon whom process cannot be served, as in attachment cases. The lien may be enforced in the event of other court of like jurisdiction, or chancery court, except liens under \$100, which must be enforced in justice court.

EXPENSES OF JUDGMENTS.—Judgments establishing liens are rendered by writs of fieri facias or venditioni exponas.

LIEN MAY BE ASSIGNED.—The lien may be assigned, and the assignee is thereby invested with all the rights and remedies of the original holder.

COSTS AND ATTORNEYS' FEES.—The lien when enforced by suit covers all costs and an attorney's fee, in the discretion of the court, not exceeding \$25.

MILLDAMS.

The laws relating to dams for mills, gins and factories, under Secs. 2184 et seq., code of Alabama, are as follows:

RIGHT OF ERECTING A DAM OR FACTORY.—A dam or mill, sawmill, gin or factory to be operated for the public may be erected across any water-course, not a navigable stream, by the owner in fee of both sides, or of one side.

APPLICATION.—Application in writing for such erection must be made to the judge of probate, and must be verified by affidavit. If land on both sides is the property of applicant, application must be made in county where the dam is to be erected; if by owner of one side only it must be made in the county opposite where proposed site of the dam lies. The application must set forth the right of applicant to make same, the purpose of the dam, description of the land by sectional division and subdivision, township and range, and name of stream if it has one, and location of the dam, name of owner of opposite side and residence if known, and whether such owner is of sound mind and of full age.

WRIT OF HABEAS DAMNUM.—When such application is filed the judge of probate issues summons for seven disinterested freeholders to meet at the place named within thirty days from the filing of the application, to inquire touching the matters contained therein.

NOTICE TO OPPOSITE OWNER.—Ten days' notice must be given to opposite owner, which may be served upon his agent or tenant. If it is a non-resident, notice is given by publication for three weeks in nearest newspaper.

MODE OF EXECUTING WRIT: CHARGE TO AND DEFENSE OF JURY.—The sheriff and the jury must attend on the day appointed, and after the jury are sworn by the court to discharge their duties fairly and to the best of their ability, they must be charged by him.

1. To examine the land above and below belonging to others which may probably be overthrown or injured, and to ascertain and assess the damages resulting from the erection of such dam to the several owners of such lands.

2. To ascertain whether the residence of any of such owners or of the out-houses, inclosures, gardens or orchards thereto immediately belonging will be overthrown.

3. To ascertain whether the health of the neighborhood will probably be endangered.

4. To ascertain whether any other mill, gin, factory or water-work will be overthrown.

RIGHT OF ONE ACRE OF LAND ON OPPOSITE SIDE TO BE ASSESSOR.—If the applicant is not the owner of the land on both sides of the stream, the jury must also be charged to ascertain and assess the value of one acre of land on the opposite side, including the place where the applicant would abut his dam, and to locate and circumscribe the same by notes and bounds, having a due regard to the interest of all parties.

PARTIES SUMMONED.—On the day of the inquest the owner of the land assessed, and also owners of lands touched by the inquest to be liable to damage are summoned to show cause why the application should not be granted. Ten days' notice to such parties must be given by personal service if they are within the county, or if not by mailing a copy at a conspicuous place on the several tracts of those who cannot be found.

APPLICATION REJECTED, WHEN.—The application must not be granted if it appears from the inquest or evidence that the health of the neighborhood, or gardens or orchard of any owner will probably be overthrown, or that the health of the neighborhood will probably be endangered, or that any other mill, gin, factory or water-work will be overthrown. If such results will not probably ensue, the application must be granted.

APPROPRIATION OF ASSESSMENT.—If the application is granted, the applicant must within three months thereafter pay the several owners, or to the judge of probate for their use, the sums assessed. Failure to so pay operates as a forfeiture of the grant.

RIGHT OF ERECTING A DAM OR FACTORY.—On making such payment, the applicant is vested with a qualified estate in fee to the acre of land located and circumscribed by the jury, to become absolute on performance of the conditions required. First, that the dam or mill, gin or factory be commenced within one and finished within three years from the date of the grant, second, that whenever the dam or mill, gin or

months after the commencement of such absence of such agent, the right to transact business by the corporation represented by such agent shall cease, and all acts or contracts performed or made thereafter shall, at the option of any person interested, be declared null and void. Compliance with the provisions of this act shall not be required of any company organized under the territorial laws, provided that a corporation organized under the laws of any foreign country shall take, receive, possess, hold, acquire or own at any one time not more than three hundred and twenty acres of real estate, exclusive of mine and mineral lands and land necessary or convenient for milling, smelting, reducing or working ores, or for manufacturing or commercial purposes.

LIENS.

All persons who may labor or furnish material of any kind in the construction, alteration or repair of any canal, water-ditch, flume or aqueduct or reservoir, bridge, fence or other structure or improvement, and to whom money or wages are due or owing therefor, shall hereafter have a lien upon the same for such money or wages as are unpaid. All miners and prospectors, surveyors, architects, builders and persons who have the charge or control of any mine, tunnel, claim, canal, water-ditch, flume, aqueduct, reservoir, fence, bridge, mill, manufacturing, fire-works or other property or thing situated on real estate, exclusive of material furnished. The liens provided for in this act are preferred to all liens, mortgages and other encumbrances which shall have attached upon the property subsequent to the time when the labor was commenced or the material furnished, to be furnished. Also to all liens, mortgages and other encumbrances of which the lien-holder had no notice, either actual or constructive, at the time he commenced the labor or commenced to furnish the material.

No lien created by this act shall continue for a longer period than six months after the filing thereof in the county recorder's office of the proper county, unless suit is brought within such period in the proper court to enforce the same. The lien shall enforce liens of the holder, interested may be joined as plaintiffs, when their interests do not conflict, and in case of conflict of interests a part may be joined as plaintiffs and a part may be made defendants. The assignee of any contract or account for material furnished or labor performed may attach, file, record and enforce the same as if he had been the original owner or holder thereof.

The procedure to enforce the lien provided in this act shall be the same as in other civil cases.

MINING.

The mining districts heretofore or hereafter created in the several counties of this territory are hereby authorized and empowered to make all necessary rules and regulations for the location, staking and working of mines therein, provided that all locations and registrations of mines and mineral deposits heretofore made shall be filed with the county recorder for record within sixty days after the same shall have been located. Size of claim, number of location and annual work required to be done thereon are regulated solely by United States statutes.

DRAINAGE. Whenever adjacent or contiguous mines, whether worked upon the same or separate lodes, have a common ingress or common drainage, they shall bear their proportionate share of such drainage expense to prevent the flowing of water upon neighboring mines. In case of failure to drain whereby occupants of adjacent or contiguous mines are compelled to provide for water, and from the same cause, the parties in default shall pay their proportion of actual and necessary cost of providing for said water, to be recovered by action. Common interests may unite in draining such mines, as a corporation, with all the rights, incidents and liabilities of the corporation, or the same may be applicable. Failing to agree as above indicated, one or more of said parties, after reasonable notice to others interested, may drain, divide and recover by action the proportionate expense thereof. In an action to recover such expense, examination of the mines may be had before trial under order of court upon at least three days' notice, provided defendant has returned plaintiff of his agent the privilege to make such examination. These provisions do not apply to proposed or unperfected mines.

MINES, HOW SOLD BY PROBATE COURT. Mines or interests therein belonging to estates of decedents may be sold by order of probate court having jurisdiction of the estate, upon petition by heirs, next of kin, and creditors, and by all persons interested in the estate of order to show cause, etc.

WATER RIGHTS.

The common-law doctrine of riparian rights is abolished. All rights, claims and streams of running water are public and are plebe to the purposes of irrigation and mining. Rights in streams, or irrigating canals, heretofore established shall not be disturbed, nor the course of such streams be changed without the consent of the proprietors of lands established rights. Right to irrigate shall be preferable to all others, and shall not be obstructed or impeded by the erection of any dam, mill, machinery, or by any sluice or dyke, except for mining purposes or reduction of metals as heretofore provided. When conducted canals, or other mining operations shall be placed upon lands previously

held for agricultural purposes the holder thereof shall be entitled to a remuneration to be fixed by appraisement of damages. **EMINENT DOMAIN.** The right of eminent domain may be exercised in behalf of canals, ditches, flumes, aqueducts and pipes, for public transportation, supplying mines and irrigating neighborhoods with water, etc.; roads, flumes, ditches, flumes, pipes and dumping places for working mines; also outlets, natural or otherwise, for the flow, deposit or conduct of tailings or refuse matter from mine; also, an occupancy in common by the owners or possessors of different mines, at any place for the flow, deposit or conduct of tailings or refuse matter from their several mines.

ARKANSAS

Compiled by C. B. MOORE, Attorney at Law, Little Rock, Ark.

CORPORATIONS.

There are no constitutional or statutory provisions especially relating to mining or quarrying companies. They are incorporated under a general law, provided for all incorporated companies, by filing articles of incorporation in the office of the secretary of state. There is no system of official examination, and no reports are made, except statement required to be made to assess for the purpose of taxation.

An annual statement is required to be filed in the office of the county clerk by every corporation, showing its financial condition. There are no forms prescribed by the law for incorporation of such companies. The corporation may be formed by three or more persons entering into articles of association for that purpose. The directors must be at least three in number and chosen annually. They elect the president who must be one of their number, and the other officers. The articles of association, with a certificate, sworn to by the directors, must be filed with the secretary of state and clerk of the county where the corporation is to have its place of business. The corporation may, of course, issue and sell stock. The capital stock has to be divided into shares of \$25 each, and the number of shares fixed in the articles of the association, but may be increased at a meeting of the stockholders and for the purpose. The shares may only be transferred on the books of the corporation in such form as the directors prescribe. A certificate of such transfer must be deposited with the county clerk and be noted by him in a book kept for that purpose. After the holder has a copy of certificate a body of evidence of the amount of his stock. His liability ceases at the date of the date of the transfer of his stock. It is not necessary to advertise sale of stock in order to be relieved of liability.

LIENS.

All laborers, including miners in this state, who perform work under a written or verbal contract, have an absolute lien on the production of their labor and for materials furnished, when unpaid for the same. To avail themselves of such lien they must file a sworn statement in the court having jurisdiction of the amounts, showing amount due, with list of land, property, crops or other production of labor and materials furnished. This sworn statement answers the place of an attachment. Such proceedings must be commenced within eight months after the work is done. Summons issues and trial is had as in ordinary suits, it served thirty days before day of trial in circuit court and ten days before a justice of the peace.

MILLDAMS.

Milldams may be erected at will across non-navigable streams, by the owner of the land or stream, unless likely to cause damage to the property or health of others. If likely to so damage others, a petition must be filed in the circuit court and a writ of abatement issued, and a jury of inquest is appointed to ascertain and report whether the dam or levee is erected so as not to materially injure health and not to obstruct the passage of fish, and if it may be erected, to assess damages to owners of adjacent lands. Provision is also made for condemning as much as one acre of land for abatement if the dam or levee is erected on one side of the stream. Milldams not made in compliance with the law shall be deemed public nuisances and dealt with accordingly.

MINING.

The constitution provides for such laws as will foster and aid the agricultural, mining and manufacturing interests of the state, and for the health and safety of persons employed in mining. Under these provisions a bureau has been established, which is superintended by the commissioner of mines, manufactures and agriculture. His duties, so far as mines are concerned, is to keep a record of all individuals, companies and corporations engaged in mining for coal, manganese, silver, lead, copper and other minerals, and of all persons and companies quarrying marble, granite, etc.; and to elect from such persons and companies information as to extent of deposit, output, cost of production, and to obtain information from persons owning mineral lands, as to locality, character of minerals, facilities for working and transportation, etc. It is required also to methodically arrange all such statistics, so as to furnish useful information to immigrants and persons seeking to invest capital in the state.

of a complaint and the issuing of a summons within six months after such sale. At any time before the sale of delinquent stock, the board of directors may elect to waive further proceedings for the collection of delinquent assessments, and may elect to proceed by action to recover the amount of the assessment and costs and expenses.

and expenses, and the following: The general powers are stated: If a corporation does not organize and commence the transaction of its business or the construction of its works within one year from the date of its incorporation, the corporation shall be dissolved. No corporation shall issue stock or bonds except for money paid, labor done or property actually received, and all fictitious increase or diminish its capital stock, create or increase its bonded indebtedness in the manner stated. The capital stock cannot be diminished or increased except as provided. No corporation shall acquire or hold any more real property than may be reasonably necessary for the transaction of its business, or the construction of its works, except as provided. The following are provided:

otherwise specially provided for, for amending the articles of incorporation, for keeping a record of all their business transactions, for keeping a journal of all meetings of directors or stockholders, also a stock and a transfer book, which are to be open to the inspection of any stockholder or creditor. The legislature may at any time amend or repeal the above, and dissolve all corporations created thereunder, but such amendment and dissolution does the dissolution of any such corporation take away or impair any remedy given against any such corporation, its stockholders or officers, for any liability which has been previously incurred.

The dissolution of corporations is provided for, which may be either voluntary or involuntary. Unless other persons are appointed by the court, the directors or managers of the affairs of such corporations at the time of their dissolution are trustees of the creditors and stockholders, and have full power to settle the affairs of the corporations.

The affairs of the corporations. By a statute commencing "force, a corporation created by the laws of any other state, and doing business here, shall, within sixty days from the time of commencing to do business in this state, designate some person in the county in which located, and within the time aforesaid shall file such designation in the office of the secretary of state, and a copy of such designation, duly certified by said officer, shall be evidence of such appointment, and a record of the same shall be made on the books of the secretary of state. No fee shall be made on such person in such manner as shall be prescribed in case of service to be made on foreign corporations. Where such designation is not made, process may be served on any person within this state acting as the agent of said corporation or doing business for them."

MUNING

SPECIAL PROVISIONS IN REGARD TO MINING. "CORPORATIONS. Any corporation organized in this state for the purpose of mining or carrying on mining operations in or without this state may establish and maintain agencies for the buying and selling of their stock, and a transfer or issue of the same at any such transfer agency, in accordance with the provisions of its by-laws, is valid and binding as fully as if made on the books of the corporation. The agencies must be governed by the by-laws and the directors of the corporation, and all stock of any such corporation issued at a transfer agency must be bought or sold on the books of the corporation. No stock may be transferred, assigned at the time of its issue by the agent having charge of the transfer agency. No stock must be issued at a transfer agency unless the certificate of stock in form of which the same is issued is presented to the agent having charge of the transfer agency."

is, at the times so rendered for consolidation, the laws of this state shall be construed to apply to the consolidation of the lands for mining claims or for mining purposes, which own or possess mining claims or lands adjoining each other, or lying in the same vicinity, may consolidate their capital stock, debts, property, assets and liabilities as may be agreed upon by the stockholders, and the stockholders of any such consolidation shall not take place without the written consent of the stockholders representing two-thirds of the capital stock, and shall not relieve the stockholders of the company from any and all past liabilities, and shall not, if the same is prescribed. When the consolidation is complete, certificate of the same to be filed in the county clerk's office, and in the office of the secretary of state, and after the notice is given as specified, the said stockholders shall be deemed to have assented to the consolidation of the stockholders for the year then ensuing.

by the Stockholders, and continued to force it to make the duty of the secretary of every mining corporation formed in this state to keep a complete set of books showing all receipts and expenditures, sources and objects, and all transfers of stock, during business hours, open to the inspection of any bona fide stockholder, is established by the constitution of this state, and the law requires that the duty of directors, on the first Monday of each month, is to make a balance sheet for the previous month, embracing a full statement of receipts and disbursements, showing sources of receipts and for what and to whom paid out, also all indebtedness to liabilities and for what sums and to whom owing, and the president and secretary, and posted conspicuously in the office of the company.

It is made the duty of the superintendent on the first Monday of each month to comply with the secretary in itemized account, verified, showing all receipts and disbursements by him for the previous month, and the secretary, on the first Monday of each month, to verify, showing the number of men under him, amount of work done, and the rate of wages, also to report under each

the work done, the mine, the amount of ore extracted, from that part of the mine taken, the amount sent to mill for reduction, its assay value, amount of bullion received, amount shipped, and amount, if any, retained by the superintendent, also to forward to the superintendent, in duplicate, all disbursements for salaries or minerals bearing quartz made in said mine, together with assay value, all to be kept in some conspicuous place in the office, and to be open to the inspection of all stockholders. Any bond filed by the superintendent, and the receipt of the same by the mine at any time he may see fit, and when he shall make application to the president, he shall cause the secretary to deliver to him an order commanding the superintendent to exhibit such books and papers, and to permit the president or any person furnished with every facility for inspection, accompanying him in person or detaching someone who is familiar with the mine. A penalty is provided for disobedience by superintendent or by the president, and also in case of the failure of the directors to have the same properly observed.

the reports and accounts posted.

1. **MINERAL RIGHTS.**—**PROPERTY.**—Real or immovable property consists of: 1. Land; 2. That which is affixed to land; 3. That which is incidental or appurtenant to land; 4. That which is immovable by law. Sheds, boxes, dunnies, hoses, pipes, railway tracks, cars, blacksmith shops, mills and all other machinery or tools used in making or developing a mine are to be deemed affixed to the mine. A thing is deemed to be incidental or appurtenant to land when it is by right enjoyed with that land and is, as in the case of a mill, a necessary outgrowth or an appurtenant right, or is an incident to the way or the use of the land or a passage for the benefit or in respect to the land of another. Every kind of property that is not real is personal.

Mining Customs.—In actions respecting mining claims, proof must be admitted of the customs, usages or regulations established and in force at the bar or diggings embracing such claim; and such customs, usages or regulations, when not in conflict with the laws of this state, must govern the decision of the action.

DECEDENTS' ESTATES.

When the inventory of the estate of a decedent discloses that his estate consists of any mine or interest in a mine, the same may be sold as follows: The executor or administrator, or any heir or creditor, or any partner or member of any mining company, may file in the court having jurisdiction of the petition for administration, a petition for the sale of the mine, and in the course of administration, and particularly describing the mine or shares which it is desired to sell, and condition and situation of the mine, interests, or of the mining company, and the grounds upon which the sale is asked. The petition may be filed at any time, and the sale is not asked. The petition may be heard by the court at any time, and may appear before such court, at a certain time and place, not less than ten or more than ten weeks from the time of the order, to show cause why the order should not be granted. A copy of the order to show cause must be personally served on the petitioner, and on all persons interested therein, at least four days before the time appointed for hearing the petition, or published at least four successive weeks in such newspapers as the court or judge shall specify. All persons interested therein, their assent to the sale, the notice may be dispensed with. The interest of the estate, or of the mining partners, or tenant in common, the court may make an order for the sale, after the order is made, all further proceedings for the sale, and for the notice, report and confirmation thereof, must be taken, and the order, report and confirmation thereof, must be filed, according to decedent's will.

EMINENT DOMAIN

[illegible]

across, under or upon which he seeks to establish such right of way or place of deposit, then it shall be lawful for him to present to the court, or judge if the court be not in session, of the county in which such claim is situated, a petition, wherein he shall state such right of way or place of deposit as he claims, and shall set forth the facts in support thereof, and to contain a particular description of the mine or claim of petitioner and of the claim or land to be affected by such right of privilege, with the name of the owner or occupant thereof, and to state that such right of privilege has not been acquired by private agreement between the respective parties, and to ask for the allowance thereof by the court or judge and the appointment of three commissioners to assess the damages. Upon the filing of such petition, the court or judge shall cause the petitioner to be summoned. After hearing the allegations and proofs, if the court or judge is satisfied of the truth of the petition, he shall make an order agreeably to the petition, and appoint three disinterested persons to assess the damages. The commissioners shall proceed to examine the mine or claim of the petitioner, as well as the claim or land to be affected; may hear testimony relative to the damages, and report in writing, designating the course or line and dimensions of the road, ditch, drain, flume or tunnel, or the place of deposit prayed for, also the value of the lands to be appropriated for such right of way or place of deposit and the damages which each owner or occupant shall suffer. For cause shown the report may be set aside and a new commission appointed, which shall proceed as the first. If no motion for a void of the report, or if it be denied, the same shall be final. Upon payment of the damages, then petitioner shall be entitled to the right of way or place of deposit as designated by the report, and, upon the expiration of the term of the report, the line, course, way or place of deposit and to erect such works and make such excavations as may be necessary for said use. Whenever the owner of any claim is desirous, in working the same, to carry off the tailings and other refuse matter, he may occupy the line, course, way or place of deposit, which in whole or in part is occupied by others for mining or other purposes, then said first owner may proceed as before stated to have such right or privilege awarded to him, provided he has no objection to the same, and the court or judge is satisfied that the right can be enjoyed without special injury to those owning or occupying along or upon such water course, ravine or outlet. All costs and expenses to be paid by the party applying.

When a mine owner, company or corporation having performed the labor and made the improvements required by law for the location and ownership of mining claims or lodes, shall die within thirty days after the time limited for performing such labor or making such improvements, and no heirs or assigns of his or hers in the county in which the mine is, an affidavit particularly describing the services and the value, which shall be prima facie evidence. Upon the failure of any claimant or mine owner to comply with the provisions of all the laws relating to the location, making of improvements, the claim of mine upon which such failure occurred shall be open to re-location as if no location had ever been made. But if, before re-location, the original locators, heirs or assigns of the same, or their heirs or assigns, should continue the same with reasonable diligence until the required labor has been performed or improvements made, and the required affidavit as above is filed with the county recorder, then the claim shall not be subject to re-location. Upon the failure of any locator or owner to contribute his portion of the expenditures required, the co-owners who are not in default may, at the expiration of the year, give such delinquent co-owner personal written notice, or by publication in the newspaper published nearest the claim, for at least one week for ninety days, and if, at the expiration of ninety days after such notice in writing or publication, the delinquent shall fail to contribute his portion, his interest in the claim shall become the property of his co-owners. A copy of such notice, with an affidavit showing service, when filed or recorded with the recorder, shall be evidence of the acquisition of such title. When a person or company has or may run a tunnel or cut in good faith for the purpose of developing a lode or claim owned by said person or company, the tunnel or cut shall be marked and the same shall be considered as expended on said lode or claim, provided said lode or claim shall be distinctly marked on the surface as provided by law. All mining claims and lodes shall be subject to a reservation of the right of way or right of right-of-way, and of the ditches, roads, canals, culverts, flumes, and other easements for the purpose of working other mines, provided that the damage shall be assessed and paid for as the cases of property taken under the right of eminent domain.

There is an act continuing in force making it unlawful for any corporation or owner of any quartz mine within the state, where as many as twelve men are employed, to sink down into such mine any perpendicular shaft or incline beyond a depth from the surface of thirty feet, and to provide for the recovery of damages in case of accident.

There is a statute continued in force in reference to corporations organized in this state for the purpose of mining out of this state, and whose business office is in this state, authorizing them to assess and collect taxes for the purpose of paying the debts of said corporation, or to carry on the business of said corporation, provided the same shall be equal and uniform, and at no time exceed five per cent. of the capital stock.

WATER RIGHTS.

The right to the use of running water flowing in a river or stream, or down a canon or ravine, may be acquired by appropriation. This right may be for some useful, beneficial purpose, and when the appropriator or his successor in interest ceases to use it for such a purpose, the right ceases. The person entitled to the use may

change the place of diversion, if others are not injured by such change, and may extend the ditch, flume, pipe or aqueduct by which the diversion is made to places beyond the first use. The water appropriated may be turned into the channels of another stream and mixed with its waters, and the recipients, by so reclaiming it the water already appropriated by another must not be eliminated. As between appropriators, the one first in time is the first in right. A person desiring to appropriate must post a notice in writing, in a conspicuous place at the point of intended diversion, stating therein:—First, that he claims the water there flowing to the extent of giving the number inches, measured under a four-inch pressure; second, the purposes for which he claims it, and the place and intended use; third, the reasons why he intends to divert it and the size of the flume, ditch, pipe or aqueduct in which he intends to divert it. A copy of the notice, within ten days after it is posted, must be recorded in the records of the office of the county in which it is posted. Within ten days after the notice is posted the claimant must commence the excavation or construction of the works in which he intends to divert the water, and must prosecute the work diligently and uninterruptedly until completion, unless temporarily interrupted by snow or rain. Completion means conducting the water to the place of intended use. By a compliance with the above the claimant's right to the use of the water relates back to the time the notice was posted, but a failure deprives the claimant of the right as against a subsequent claimant who complies.

LIENS.

Miners and persons and laborers of every class, performing labor upon or furnishing materials to be used in the construction, alteration, addition to or repair of any building, wharf, bridge, ditch, flume, aqueduct, tunnel, fence, machinery or other structure, and persons who, in the construction, alteration, addition to or repair of any building or other improvement, are furnished with labor, or who furnish materials, or who do or furnish at the instance of the owner or his agent, contractor, subcontractor, architect, architect, builder or other person having charge of any mining or of the construction, alteration, addition to or repair of any building or other improvement is held to be the agent of the owner. In case of a contract for the work, between the reputed owner and his contractor, the lien shall extend to the entire contract price, and such contract shall operate as a lien in favor of all persons, except the contractor, for the entire contract price, and the contractor shall be satisfied then by a lien for any balance of the contract price in favor of the contractor. All such contracts shall be in writing when the amount to be paid exceeds \$200, and the contract, set forth in full, or a copy of all the terms of the contract, a description of the property, the general character of the work to be done, the total amount to be paid and the amounts of all partial payments, when they become due and payable, shall, before the work is completed, be filed of record in the office of the county recorder, where the property is situated, otherwise the contract shall be void, and in such case the labor done and materials furnished by all persons except the contractor shall be deemed to be furnished at the usual instance of the contractor, and the claim shall be in favor of the laborers. As part of the contract price shall be payable in advance, but the same shall be made payable in installments after the commencement of the work or on the completion of the whole work, provided that at least twenty-five per cent. of the whole contract price shall be made payable at least thirty days after the final completion of the contract. As payment made prior to the time when the same is due shall be void for the purpose of defrauding any lien in favor of any person except the contractor, but as to such liens such payments shall be deemed as if not made.

As to all liens, except that of the contractor, the whole contract price shall be payable in money, and shall not be diminished by any prior or subsequent indebtedness in favor of the contractor, and such indebtedness shall not be a defense to such contract and alterations do not conform to the above, the labor done and materials furnished by all persons except the contractor shall be deemed to be furnished at the usual instance of the contractor, and the claim shall be in favor of the laborers. As part of the contract price shall be payable in advance, but the same shall be made payable in installments after the commencement of the work or on the completion of the whole work, provided that at least twenty-five per cent. of the whole contract price shall be made payable at least thirty days after the final completion of the contract. As payment made prior to the time when the same is due shall be void for the purpose of defrauding any lien in favor of any person except the contractor, but as to such liens such payments shall be deemed as if not made. As to all liens, except that of the contractor, the whole contract price shall be payable in money, and shall not be diminished by any prior or subsequent indebtedness in favor of the contractor, and such indebtedness shall not be a defense to such contract and alterations do not conform to the above, the labor done and materials furnished by all persons except the contractor shall be deemed to be furnished at the usual instance of the contractor, and the claim shall be in favor of the laborers. As part of the contract price shall be payable in advance, but the same shall be made payable in installments after the commencement of the work or on the completion of the whole work, provided that at least twenty-five per cent. of the whole contract price shall be made payable at least thirty days after the final completion of the contract. As payment made prior to the time when the same is due shall be void for the purpose of defrauding any lien in favor of any person except the contractor, but as to such liens such payments shall be deemed as if not made.

or after the completion of the alteration, addition to or repair thereof, or the performance of any labor in a mining claim, must be for reward with the claim recorder of the county in which such property or some part is situated a claim containing a statement of his demand, after deducting past credits and offsets, with the name of the owner or reputed owner, if known, and also the name of the person to whom the work was done, to whom he furnished the materials, with a statement of the terms, time given and conditions of his contract and also a description of the property to be charged with the lien, sufficient for identification, which claim must be paid for by the owner or reputed owner or other person. Acceptance of the said improvement, or cessation from labor for thirty days upon any unfinished contract, shall be deemed equivalent to completion. In every case in which one claim is filed against two or more buildings, mining claims or other improvements owned by the same person, the person filing such claim must, at the same time, designate the amount due him on each, otherwise the lien of such claim is postponed to other liens. The lien of such claimant does not extend beyond the amount designated, as against other creditors having liens by judgment, mortgage or otherwise, upon either of such buildings or other improvement, or upon the land upon which the same are situated. No lien binds for a longer period than ninety days, unless proceedings be commenced within that time to enforce the same, or, if a credit be given, than ninety days after the expiration of such credit; but no lien continues in force for a longer time than two years from the time the work is completed, by any agreement to give credit. No creditor or claimant, upon using any lands with the knowledge of the owner or the person claiming any interest therein, shall be deemed to have been constituted at the instance of such owner or person, and the interest shall be subject to a lien filed as above, unless such owner or person shall, within three days after the time the person claiming a lien or intended construction, give notice that he will not be responsible for the same, by posting a notice in some conspicuous place upon said land, or improvement situated thereon. The contractor shall be entitled to recover upon a lien filed by him so much as may be due him, after deducting all claims of other parties for work done and materials furnished; and in all cases where a lien shall be filed for work done or materials furnished to any contractor, he shall defend any action thereon at his own expense, and during the pendency of such action, the owner may withhold from the contractor the amount of the lien; and in case of judgment against the owner or his property upon the lien, he shall be entitled to deduct from any amount due to him by the contractor the amount of such judgment and costs, and if the amount shall exceed the amount due by him to the contractor, or if the owner shall have settled with the contractor in full, he shall be entitled to recover back from the contractor any amount not paid by him in full. In all cases of liens, the order shall be in the following order: 1. All persons performing manual labor; 2. Persons furnishing materials; 3. Sub-contractors; 4. Original contractors. And the proceeds of the sale must be applied to each in the class of his lien in the order specified in this list. If the sale of the property there is a deficiency of proceeds, judgment may be docketed for the deficiency.

Any number of persons claiming liens may join in the same action, and when the action is brought, they may cause to be consolidated them. The court may allow as a part of the costs, the money paid for filing and recording the lien, and reasonable attorney's fees in the superior and supreme courts, such costs and attorney's fees to be allowed each lien claimant whose lien is established, whether he has a plaintiff or defendant, or whether they all join in one action or separate actions are consolidated. Whenever materials are furnished, such materials shall not be subject to attachment, execution or other legal process, to enforce any debt due by the purchaser, except a debt due for the purchase money, so long as in good faith the same are about to be applied to the construction, alteration or repair of such building, mining claim or other improvement. Nothing herein shall affect the right of any person to bring an action to recover such debt against the person liable therefor. Any person who willfully gives a false notice of his claims to the owner forfeits his lien. Any person who shall willfully refuse to give his work or materials not done or furnished for the property described therein his lien. If the owner and contractor shall conspire to agree that the written contract filed shall appear to show the contract price to be less than it really is, and it shall be shown, then such contract is void; and in such case the labor done and materials furnished to such persons, except the contractor, shall be deemed to have been done and furnished at the instance of the owner. Any bond which may be given by the contractor to the owner, for the faithful performance of his contract, shall be void, and shall inure to any person who performs labor for or furnishes materials to the contractor, and any such person shall have an action to recover upon said bond against the principal contractor, or of either of the persons who furnish him of such labor and materials, not to exceed the amount of the bond, but such action shall not affect the lien, except that there shall be but one satisfaction. Nor shall any alteration in the contract, or deviation from the contract, or any payment, release the sureties from their liability, except to the owner.

LIENS FOR SALARIES AND WAGES. In all assignments by any person to trustees or assignees, on account of the inability of the person, at the time, to pay his debts, or in proceedings in insolvency, the wages of the labor done and materials furnished to such clerks or laborers employed by such person, to the amount of \$200 each, and for services rendered within sixty days previously, are preferred claims, and must be paid before any other creditor of the assignor. In case of the death of any employee, the wages of the miner and other persons above named, for services rendered within the sixty days next preceding the death, not exceeding \$200, rank in priority next after the funeral expenses, expenses

of the last sickness, expenses of administration and the allowance to the widow and infant children, and must be paid before any other claim. In case of the death of any person, the writs issued against any person, except for claims for labor done by any miners, mechanics, salesmen, servants, clerks and laborers, who have claims against the defendant for labor, may give notice of the claim of the person whose estate is claimed for, by the claimant, to the creditor and the officer executing such writ, at any time before the actual sale of property levied on; and unless such claim is disputed by the debtor or a creditor, such officer must pay to such person, out of the proceeds of the sale, the amount each is entitled to for services rendered within the sixty days next preceding the levy, not exceeding \$200. If any of all of such claims are disputed, the person presenting the same must commence an action within ten days for the recovery thereof, and the officer shall retain sufficient from the proceeds of the sale to satisfy such claim until the determination of the action. The debtor or creditor intending to dispute shall within ten days after receiving such notice serve upon the claimant and the officer a statement in writing, sworn to by him, setting forth that no part of said claim, or not exceeding a specific sum, is due from the debtor to the claimant for services within the sixty days next preceding the levy of the writ. If the claimant fails to recover a sum exceeding what is admitted to be due, he shall not recover costs.

MINING.

MINING PARTNERSHIPS.—A mining partnership exists when two or more persons who own or acquire a mining claim for the purpose of working it and extracting the minerals actually engage in a mining partnership. No other person becomes a partner, unless necessary. The relation of partners arises from the ownership of shares or interests in the mine and working the same for the purpose of extracting the minerals. A member of a mining partnership is entitled to the share of the profits and to the interest or share he owns in the mine bears to the whole partnership capital or whole number of shares. Each member of a mining partnership has a lien on the partnership property for the debts due the partnership, and is not liable to the partnership for its use. This lien exists notwithstanding an agreement among the partners to the contrary. The mining ground owned and worked by partners in mining, whether purchased with partnership funds or not, is partnership property. One of the partners in a mining partnership may transfer his interest in the mine and business without dissolving the partnership. The purchaser, from the date of his purchase, becomes a member of the partnership. A purchaser of an interest in the mining ground of a mining partnership is not subject to the debts and liabilities existing prior to his purchase for debts due all creditors thereof, or advances made for the benefit of the partnership, unless he purchased in good faith, for a valuable consideration, without notice of such lien. A purchaser of an interest in the mining ground of a mining partnership is engaged in working it takes with notice of all liens resulting from the relation of the partners to each other and to the creditors of the partnership. No member of a mining partnership or other agent or manager thereof can by a contract in writing dissolve the partnership, expressly or by implication, or from the members thereof. The decision of the members owning a majority of the shares or interests in a mining partnership binds it in the conduct of its business.

CONSTITUTIONAL PROVISIONS.

Each stockholder of a corporation or joint-stock association shall be individually and personally liable for such proportion of all its debts and liabilities contracted or incurred during the time he was a stockholder as the amount of stock or shares owned by him bears to the whole of the subscribed capital stock or shares of the corporation or association. The directors or trustees of corporations and joint-stock associations shall be jointly and severally liable for the debts and liabilities contracted or incurred, or embodied or unappropriated by the officers of such corporation or joint-stock association during the term of such director or trustee.

No corporation shall engage in any business other than that expressly authorized in its charter or the law under which it may have been or may hereafter be organized; nor shall it hold for a longer period than five years any real estate, except such as may be necessary for carrying on its business.

No corporation shall issue stock or bonds, except for money paid, labor done or property actually received, and all fictitious increase of stock or indebtedness shall be void. The stock and bonded indebtedness of corporations shall not be increased except by the payment of cash or the delivery of property to the persons holding the larger amount in value of the stock at a meeting called for that purpose, giving sixty days' public notice, as may be provided by law.

In all elections of directors or managers of corporations, every stockholder shall have the right to vote in person or by proxy, the number of shares of stock owned by him, for as many persons as there are directors or managers to be elected, or to cumulate said shares and give one candidate as many votes as the number of directors multiplied by the number of his shares of stock shall equal, or to distribute them, on the same principle, among as many candidates as he shall think fit; and such directors or managers shall not be elected in any other manner, except that members of the stockholders of corporations may vote on all questions affecting and manufacturing purposes may vote on all questions affecting such societies in manner prescribed by law. Every corporation, other than religious, educational or benevolent, organized or doing business in this state shall have at least one director or officer in place in this state for the transaction of its business, where transfers of stock shall be made, and in which shall be kept for inspection, by every person having an interest therein, and legislative

services in and about property. Ranchmen, farmers, herders of cattle, boarding-houses, keepers, tavern-keepers, liveymen, common carriers and warehousemen each have a lien upon the property or stock in their possession for all claims of rent, hire, board, keeping, care or work concerning said property. Also the carriers of every grade and class have the right of lien for making or receiving property.

STATE LIENS. The state has a lien upon all the property of persons convicted of a crime for the fine and costs of prosecution. **EXEMPTIONS** are a claim upon the personal property of the judgment debtor from the time such execution is delivered to the sheriff.

JUDGMENT LIENS are for six years upon the real estate of every person against whom judgment has been rendered in a court of record, from the time such execution is delivered to the county recorder.

EMINENT DOMAIN.

Private property shall not be taken or damaged for public or private use, except upon payment of just compensation. Land may be condemned when necessary for the construction of roads, bridges, ferries, tunnels, ditches, reservoirs, railroads, etc. The amount of compensation is determined by a board of three commissioners or, where the owner demands it, by a jury of twelve freeholders. If the party seeking to condemn the land, or the owner is unknown or under disability, may file his petition in the district or county court, setting forth the facts and asking the amount of compensation to be paid. Such petition is then heard and is served by publication or by publication in other cases, and a trial of the issues had. Upon the finding of the jury or board of commissioners, as to the amount to be paid, and upon the payment thereof, the court enters a rule directing the landowner to deliver a certified copy of which rule, filed in the recorder's office, vests the fee simple title to such lands in the petitioner, except as to veins or deposits found therein. Appeals and writs of error lie as in other cases.

WATER-RIGHTS.

It is provided in Article 16 of the state constitution that the water of every natural stream not appropriated before March 14, 1876, is the property of the public and dedicated to the use of the people, subject to appropriation as provided by law. The right to divert unappropriated waters of any natural stream to beneficial use shall be secured. Priority of appropriation shall obtain; the better right as between those using the water for the same purpose. In case of an insufficient supply of water, domestic use has preference over agricultural and agricultural over manufacturing. Right to the water for the construction of ditches, canals and flumes for the conveying of water for domestic purposes, for irrigation of agricultural lands, for mining and manufacturing purposes, and for drainage, is had upon payment of just compensation. [See Eminent Domain.]

The priority of right to water is adjudicated by the district court, and based upon the date of actual application to beneficial use. Where any ditch is not entitled to its full supply, the water actually received shall be divided pro rata among all the consumers of water thereunder.

Owners of reservoirs have the same right of condemnation and right of way as ditch-owners, and may store therein any unappropriated water not needed for immediate use, and may discharge the water therefrom into and about natural streams and take the same out again at any desired point. In case ditches are constructed for the carriage of water to be sold, the board of county commissioners is empowered to fix the maximum rate at which such water shall be sold.

The state is divided into numerous "water districts," each under the supervision of a water commissioner appointed by the governor. These commissioners divide the water among the several ditches according to the priorities of each water right. The ditches used for the purpose of irrigation and not deriving a revenue from the sale of water are free from taxation.

It is the duty of the state engineer to make careful measurements of the maximum and minimum flow of water in every stream in which water is drawn for irrigation, and collect facts and make reports as to system of storage reservoirs, all of which is published in his annual report.

MINING.

Citations are as follows: A. C., Acts of Congress; G. S., General Statutes of Colorado; M. A. S., Mills' Annotated Statutes of Colorado; R. S., Revised Statutes of the United States; S. L., Session Laws of Colorado.

ALIENS. Constitution of Colorado (Sec. 27 of Art. II) provides that aliens who are citizens of any foreign country acquire, hold and dispose of property of the same as native-born citizens.

ANNUAL LABOR. Annual labor, commonly called "assessment," was required by district rules prior to May 10, 1872. Since that time state legislation has been enacted to the effect that the amount of dollars' worth of labor must be performed or improvements made on each claim during each calendar year. (G. S., Sec. 2224, A. C., Jan. 22, 1880.) Within six months thereafter, the person for whose benefit the same was performed must file with the recorder of the county wherein the mine is situated an affidavit showing performance of the same, and describing the lode and stating at whose expense same was performed. This affidavit or a certified copy of same becomes prima facie evidence of the performance of such labor, and such improvement. (S. L., 1881, p. 222, M. A. S., Sec. 216.) A neglect to file such affidavit does not of itself leave a claim open to re-location.

APEN AND DIP. The location or location certificate of any lode claim shall be construed to include all the surface ground

within the surface-lines thereof and all lodes and ledges throughout their entire depth, the top or apex of which lies inside of such lines extended downward, vertically, with such parts of all lodes or ledges as continue by dip beyond the side-lines of the claim, but such any portion of such lodes or ledges beyond the end-lines of the claim or the end-lines continued, whether by dip or otherwise, or beyond the side-lines in any other manner than by the dip of the lode. (G. S., Sec. 2222.)

If the top apex of a lode is its longitudinal course extends beyond the exterior lines of the claim at any point of the surface or as extended vertically downward, such lode may not be followed in its longitudinal course beyond the point where it is intersected by the exterior lines. (G. S., Sec. 2222.)

ASSAYERS. There are no official assayers, but professors in the school of mines at Golden may make and certify assays. (G. S., Sec. 2113; M. A. S., Sec. 4083.)

BILLIONS. See "Dip Buyers."

COAL MINES. A board of examiners appoints inspectors whose duty it is to inspect all coal mines, fire provers, and to make and see that the provisions of the statute relating to ventilation, escape-shafts, boilers, signals, hoisting machinery and inspection by skilled bosses are enforced. Severe penalties for both criminal and civil are provided for non-compliance with these laws.

CLAIMS. There are penal laws concerning the keeping or using of fraudulent gold-dust seals, mill seals or assay seals, the sale or passing of delusoid gold dust; fraudulent undervaluation of ores or overvaluation of same; malicious mischief; dispossession or "jumping" claims by stealth or violence where two or more persons are associated together for that purpose.

DIP. See "Apex."

DISCOVERY-SAVE. Must be on the claim and on public domain at least ten feet deep, three feet wide, and be sunk within 300 feet of the lode. See "Lode," "Location," etc.

DRAINAGE. Owners of contiguous or adjacent mines having a common ingress of water are obliged to provide for their proportionate share of drainage thereof, and, failing to do so, the owner of such drainage may be relieved by performing by neighboring mine, and partly sunk is entitled to inspection of mine so drained. This act applies only to developed mines. Party holding water losses control and use of same as soon as it flows in a natural water course. Lode owners and companies having a common interest in drainage may form a corporation for that purpose. (G. S., Secs. 2416-2424, M. A. S., Secs. 3172-3180.)

FORFEITURE ENTRY. Forfeiture entry, forcible or unlawful disclaimer, forfeiture of claim, and justness of the peace and the county and district courts have jurisdiction to try the same and grant writs of restitution.

IMPROVEMENTS. It has been held that buildings, to be an improvement on an annual labor, must be made for benefiting the claim. See "Annual Labor."

JUMPING CLAIMS. See "Crimes."

LAND OFFICERS. United States land-officers are established at Denver, Pueblo, Leadville, Glenwood Springs, Durango, Gunnison, Del Norte, Montrose, Lamar, Hugo, Akron, Sterling and Central City.

LEASE. For more than a year must be in writing and should be recorded. (G. S., Sec. 2223, G. S., Sec. 137.)

LIENS. All persons who do work or furnish materials for the working, preservation or development of any mine, lode, mining claim or deposit, or upon any shaft, tunnel, decline, adit or other excavation designed for the purpose of draining or working the same shall have a lien upon the same for the amount and value of the work so done or materials so furnished, to the extent of the interest or claim of such owner thereto at the time of the commencement to do such work or furnish such materials. This lien attaches to title subsequently acquired. Where several lodes or deposits are worked through a common shaft they are considered one mine for the purpose of this act. (G. S., Sec. 2237, M. A. S., Sec. 2233.) The act does not now apply to owners of claims in mining districts, but it does, but not from July 18, 1880, to July 1, 1881, unless owner avoided the same by filing a notice that mine was being worked under a lease. Said lien attaches to rights of water and rights of way appertaining to property to which the lien attaches. Miners' liens are enforced by filing statement and bringing suit as in mechanics' liens.

LIMITATIONS. Every person in the peaceable and undisputed possession of a mining claim, under claim and color of title, made in good faith, who shall not five consecutive years continue in such possession and shall also, during said time, pay all taxes legally assessed on such mining claim, shall be entitled and adjudged to be the legal owner of his or her proper title. Persons holding under such possession by purchase, devise or descent before said five years shall have expired, and who shall continue such possession and continue to pay the taxes assessed for the term above, shall be entitled to the benefits of above. (G. S., Sec. 2180, M. A. S., Sec. 2223.) The above applies only to possessory rights of lands owned by the United States. Actions for trespass and for replevin are barred in six years. (G. S., Sec. 2181, M. A. S., Sec. 2223.)

LOCATION. No location of a mining claim shall be made until the discovery of the vein or lode within the limits of the claim is located. The discoverer of a lode shall, within the time specified in the date of discovery, proceed to file in the office of the recorder of the county in which such claim is situated, by a location certificate which shall contain, first, the name of the lode, second, the name of the locator, third, the date of location, fourth, the number of feet in length claimed, and fifth, the general course of the lode as near as may be. (G. S., Sec. 2220, M. A. S., Sec. 3150.)

Before filing such location certificate the discoverer shall locate his claim by: First, sinking a discovery-shaft upon the lode to a depth of at least ten feet from the lowest part of rim of such shaft at the surface, or deeper if necessary to show a well-defined ore-body, second, by posting the record of discovery at the surface a plain sign of notice containing the name of the lode, the name of the locator and the date of discovery. (G. S., Sec. 240; M. A. S., Sec. 352.)

Each surface boundary shall be marked by six substantial posts, seven or marked on the side of sides which are in toward the claim, and sunk in the ground, to wit: One at each corner and one at the center of each side-line. (G. S., Sec. 240; M. A. S., Sec. 352.)

Any open cut, cross cut or tunnel which shall cut a lode at the depth of ten feet below the surface shall hold such lode the same as if a discovery-shaft were sunk thereon, or an adit of at least ten feet in along the lode shall be equivalent to a discovery-shaft. (G. S., Sec. 240; M. A. S., Sec. 352.)

The discoverer shall have sixty days from the time of discovering or disclosing a lode to sink a discovery shaft thereon. The discovery shaft must be sunk upon unoccupied public land, that is to say, it must be outside of the lines of a lode already located, a valid location, and there must be a separate discovery for each claim. Where one lode crosses, runs into or unites with any other lode, priority of title shall determine the rights to all or part of the lode contained within the lines of a lode already located, the locator of any mining claim heretofore or hereafter located, or his assigns, shall apprehend that his original location certificate was defective, erroneous, or that the requirements of the law had not been complied with, and that the lode is a lode already located, by changing the surface boundaries or taking in any part of an overlapping claim which has been abandoned, he may file an additional certificate, provided such re-location does not interfere with existing rights of others at the time of such re-location. (G. S., Sec. 240; M. A. S., Sec. 352.)

An abandoned lode claim may be re-located by sinking a new discovery shaft or sinking the original shaft ten feet deeper, and the creation of new boundaries and new location stakes, and the certificate shall state that the same has been located as abandoned property. (G. S., Sec. 241; M. A. S., Sec. 352.)

The discoverer of a placer claim shall, within thirty days from the date of discovery, record his claim in the office of the recorder of the county in which the claim is situated, by a location certificate which shall contain, first, the name of the claim, designating it as a placer claim, second, the name of the locator, third, the date of location, fourth, the number of acres or feet claimed, fifth, a description of the claim, and sixth, the date of the filing of the certificate, and permanent monuments as shall identify the claim.

Before filing such location certificate the discoverer shall locate his claim, first, by posting upon his claim a plain sign of notice containing the name of the claim, the name of the locator, the date of discovery, and the number of acres or feet claimed, second, by marking the surface boundary with substantial posts sunk in the ground, to wit, one at each angle of the claim. It will be noted that the notice on stake must contain the date of discovery, whereas the certificate must contain the date of location. See also "Lodes," "Placer," "Apex."

LOCES. Lodes cannot exceed fifteen hundred feet in length. In Gilpin, Clear Creek, Boulder and Summit counties the width is one hundred and fifty feet, and in all other counties three hundred feet, which width is to be evenly distributed on each side of the center of the vein or crevice. Under the decisions in this state it seems that the lode should be in place in the discovery shaft, but the discovery shaft may be at the point where the lode was first discovered or disclosed. Each claim must have a separate discovery shaft. Known lodes within limits of a placer are excluded by the patent unless the lode belongs to the locator and is especially designated in the application. Where lodes pass in and out of the claim, the right of the locator is entitled to the vein or lode contained in the space of intersection, but subsequent location has a right of way through the intersection for the purpose of mining.

MAXIMUMITY. When the district court has power to assign a lode to the locator, it may, at the request of the locator, or of a writ of restitution, restoring any person to the possession of any mining property from which he may have been ousted by fraud, force or violence, or from which he is kept out of possession by threats, or where possession of a lode has been unlawfully taken by a legal holder or while temporarily absent therefrom, the granting of such writ extends only to the right of possession, leaving the parties to the legal rights on all other questions as though no such writ had been granted. Each lode claim must be excepted upon five days' written notice to the adverse party, and after a hearing.

NOTICE OF LOCATION. The requirement of a location notice is absolute both on lode and placer claims. Two persons are entitled to keep the product from emptying into any water or course.

OPEN CLAIMS. A discovery by means of an open cut is equivalent to a shaft. See "Location."

OUR RIGHTS. Persons or corporations engaged in mining, sampling, concentrating, treating, ore, shipping or purchasing, ore in the state of Colorado shall keep a book showing the name of the party on whose behalf such ore is delivered, the name of the buyer and seller of such ore, the date of delivery, the weight and amount of each such lot of ore, the name and location of the mine or claim from which it shall be stated that the same has been mined or produced, and the date of delivery of any and all parcels of ore, which lode may be extended to any party in interest, after abolition made by him before some magistrate that one has been stolen from him. The buyers of gold dust, amalgam, bullion, gold specimens, silver nuggets and silver bullion are required to keep a book showing the name of the party to whom the owner or entitled to the possession of any mining claim, or in possession of other parties mining who are shipping ore there-

from may render the purchasers of such ore liable for the value thereof by serving upon said purchasers a notice to that effect, provided that within five days after serving such notice he commence an action to obtain the party unlawfully in possession from such disposing of said ore.

PARTNERSHIP. Mining partnerships exist where several owners cooperate in the working of a mine. A member of such a partnership may assign his interest without consent of the other partners, but if the partnership dissolved by the death of a partner. The power of a member of a mining partnership to bind the firm is limited strictly to the scope of the business, to what is necessary and usual in like concerns. A mining partner cannot create a firm promissory note or contract of sale. A general partnership may be formed for mining purposes.

PLACER. Stone quarries, oil land, kiosk, lorry, beds and asphaltum may be located as placers. A placer location must have a name. As to requirements of certificate see "Location."

RECORD. A location certificate must be recorded. See "Location." An indefinite record is void. There must be a separate certificate for each claim. (G. S., Secs. 240; 241; M. A. S., Secs. 352, 353.)

RIGHT OF WAY. See "Location."

RIGHT OF WAY. Every miner shall have the right of way across any and all claims for the purpose of hauling quartz from his claim. All mining claims are subject to right of way of any ditch or line for mining purposes, or of any branch of a pack trail, provided such right of way shall not be exercised against any prior existing valid location, without consent of the owner, except by condemnation as in case of land taken for public high-ways.

SURFACE. When the right to mine is separate from ownership or right of occupancy to the surface, the owner or rightful occupant of the surface may demand security from the miner, and if refused may enjoin such miner from working until such security is given. The order of injunction shall be by the amount of bond. (G. S., Sec. 245; M. A. S., Sec. 356.)

TAXATION OF MINES. Under the constitution mines were not the subject of taxation for ten years from March 14, 1876, but only the net proceeds and surface improvements thereof. But in 1881 an act was passed providing that all mines and mining property should be assessed and taxed, and sold for delinquent taxes, as other property. All mines, claims and possessory rights, which produced income, were to be assessed in value \$1,000, which was assessed upon a valuation not exceeding one-tenth of the gross proceeds for the year, to be ascertained by the assessor. If the proceeds are from a group of contiguous claims, the valuation shall be proportioned to the number of claims. The claims are assessed, and the right of possession sold for delinquent taxes. It is the duty of the assessors to give on their rolls the mineral survey numbers of claims patented or entered for patent. It has become customary in many counties to assess unproductive patented claims at the value of \$200.

TENURE. A territorial act in 1881 gave the right to locate and record lode and placer claims with right to two hundred and fifty feet of way from the time on each lode discovered, and such tunnel was the right of way from the lode to the surface or in its course. This act conflicts with the congressional acts, and is probably inoperative in part, but the grant of a right of way relieves the tunnel owner from liability for a technical trespass. (See "Right of Way.")

CONNECTICUT

Compiled by LEAH BROTHERS PRICK, Attorney at Law, Bristol, Conn.

CORPORATIONS.

Any three persons, by written agreement, stating the name, purpose, location, capital stock and the names and shares of each stockholder, may form a joint stock corporation for any lawful business in this state, and out of this state, while their business may be conducted in this state, the incorporation of such corporation may not be trust, insurance, buying and selling real estate, banking or trading in bonds, notes or other evidence of indebtedness, or trafficking in letters patent or patent rights. The name must contain the words "and out of this state," and the word "corporation." The shares must be of the par value of \$100, \$50 or \$25.

The articles of association must be published at full length in a newspaper published in the county of location, and a copy thereof, with a certificate of its publication, the names and addresses of the subscribers, the stock taken by each, the amount actually paid in and cash, and the amount in property, with schedules thereof, must be made, signed and sworn to by a majority of the directors and recorded in the offices of the secretary of state and of the clerk of the town of location.

No business can be done until the entire stock is subscribed, and at least twenty per cent, paid in cash.

Annual reports showing stock paid in, value of real estate, value of personal estate, including real estate, debts, credits, names, addresses, and number of shares of each stockholder, must be filed with the town clerk and secretary of state. (Rev. St. 1888, §§ 344-348.)

No application to the general assembly for a charter for a corporation to perform its principal business outside the state shall be heard until the applicants have paid to the treasurer of the state six and before beginning business they shall pay such further sum, not less than six hundred dollars, as the assembly may determine. This is in lieu of all franchise tax but not of tax on property of the shares of stockholders within this state. (Rev. St. 1888, §§ 342, 343.)

LENS.

Any person furnishing materials or rendering services in the construction or repair of any building to a value exceeding \$25 may, by lodging with the town clerk a sworn certificate in form prescribed by the statute, within sixty days from ceasing to so render services or furnish material, obtain a lien on the building and the land on which it stands, which will take precedence of any incumbrance arising after the commencement of such service or furnishing of material.

Sub-contractors can take advantage of this statute only by notifying the owner in writing of their intention to claim a lien within sixty days from the commencement of their claim. This notice, with return of service, must be recorded in the town clerk's office. (Rev. St. 1888, §§ 3095-3097.) Sub-contractors' liens are subject to all rights of the owner for payments made in good faith, before receipt of notice.

Chattel mortgages are invalid without actual delivery of possession to and retention by the mortgagee; but mortgages of any manufacturing or mechanical establishment together with the machinery, engines, or implements situated or used therein, or of such personal property, without the real estate, or of several pieces of chattels, expressly enumerated, may be valid without delivery of possession if executed and recorded like deeds of real estate. (Rev. St. 1888, § 3036.)

Contracts of conditional sale are valid, though possession is taken by the vendee, and venditor may have the right of re-sale of the goods, the attitude of the courts being one of great liberality to conditional sale and of great strictness toward chattel mortgages. (49 Conn. 111, 31 Conn. 293.)

MINING.

There is almost an entire absence of either legislation or judicial decision in regard to mining and quarrying in Connecticut. Non-resident aliens (who except citizens of France are incapable of holding real estate for other purposes, may acquire and hold real estate for the purpose of quarrying, mining, or opening or conducting any, or converting the products of such quarries and mines into articles of trade or commerce," but shall forfeit their title if such land reverts for ten consecutive years to be used for such purposes. (Rev. St. 1888, § 16.)

Water rights in Connecticut. Where the owner of a mill is given the right of current domain, to be exercised by petition to the superior court and appointment of an appraising committee, to flow the land of others by a dam on his own land or to dig ditches, to conduct water to his mill, or to dig ditches, to conduct water over the land of others or to deepen existing ditches. Right of existing mills are fully protected from injury by such proceedings.

The damage to be paid is that found by the appraising committee, plus fifty per cent. (Rev. St. 1888, §§ 1216-1217.)

DELAWARE.

CORPORATIONS.

HOW FORMED. Corporations are chartered by the legislature of the state by the passage of a law creating such corporation. No corporation can be chartered except by the concurrence of two-thirds of each branch of the legislature.

DURATION. Corporations chartered by the legislature cannot continue for a longer period than twenty years unless a renewal act be passed by the legislature.

REVISION. By the constitution of the state the legislature has reserved to it the power to revoke any corporation charter.

POWER. Corporations have the usual power given to all corporations, such as making and selling, determining the time and place of their meetings, and such other powers as are necessary to the carrying out of the objects of the corporation.

SUITS. (1.) The franchise of a corporation may be taken and sold on execution for a money judgment rendered against the corporation. The same is the property of the corporation may be levied on and sold.

LENS.

Whoever furnishes materials to an amount in excess of \$25 in value on any house, building, structure or vessel, under a contract with the owner or his contractor, has a lien which attaches to the property for which it was furnished, and also to the land on which it stands and adjacent of the land surrounding for the reasonable use of the building. This lien takes precedence over all other claims on the material furnished.

The contractor must file his statement under oath, with name of owner, description of property on which the lien is claimed, kind and value of materials furnished, amount due and the time when the work was completed, in the office of the probathary of the superior court of the county where the building is situated, or, in case of a vessel, of that in which the materials were furnished. Sub-contractors must file within ninety days after furnishing material, and contractors cannot file until ninety days after the building is completed, and must file within thirty days thereafter. In case of a vessel the statement must be filed within four days after the vessel is launched and ready for sea. There is no priority among lien holders if property is not sufficient to pay all they share pro rata. The lien is enforced by attachment.

For materials furnished to a tenant the lien attaches only to the less hold interest held by the tenant.

FLORIDA.

Compiled by HORATIO DAVIS, Attorney at Law, Gainesville, Fla.

CORPORATIONS.

The constitution of the state provides:

1. That the state cannot pledge or loan its credit to, or become a joint owner or stockholder in, any company, corporation or association, and that no company, corporation or association, incorporated by or for the state, shall not become stockholders in, obtain or appropriate money for, or loan their credit to, any corporation, association or institution.

2. That neither private property nor the right of way shall be appropriated to the use of any corporation until full compensation therefor shall be first made to the owner, or first secured to him by deposit of money; which compensation, irrespective of any benefit from any improvement proposed by such corporation, shall be ascertained by a jury.

3. That the property of corporations, except that of the corporation which shall construct a ship or barge canal across the peninsula of Florida, shall be subject to taxation unless such property be held for such exclusively as is religious, scientific, municipal, educational, literary or charitable purposes.

4. That the legislature shall provide by general law for incorporation, such educational, agricultural, mechanical, mining and other useful companies or associations as may be deemed necessary.

GENERAL CORPORATION LAW.

NUMBER OF INCORPORATORS. Any three or more persons may associate themselves and become incorporated for the transaction of any lawful business.

REGISTER OF PROPOSED CHARTER. It must be subscribed by three or more persons, and acknowledged by at least three of the subscribers, before same is offered to the clerk for acknowledgment of deeds. It must set forth name of corporation and place of business, the general nature of the business, to be transacted, the amount of capital stock authorized, and the number and par value of the shares into which it is divided, and the term and condition, upon which it is to be paid in, the term for which it is to exist, by what officers the business of the company is to be conducted, and the time at which they will be elected, and the name of the officers who are to conduct the business, and those elected at the first election shall be qualified, the highest amount of indebtedness or liability to which the corporation can subject itself, and the names and residence of the subscribers.

NOTICE OF INTENTION TO APPLY FOR LETTERS PATENT. The governor for letters patent thereon, shall be published once a week for four successive weeks in some newspaper published in the county where the place of business is to be located, which notice shall be received by at least three of the subscribers. The proposed charter shall be on file in the office of the secretary of state during the four weeks of publication.

ISSUE OF LETTERS PATENT. The proposed charter, with proof of publication of notice, shall be presented to the clerk of the court for him and for an object authorized by law, and due notice has been given, patent will issue incorporating the subscribers, their associates and successors, into a body corporate. The secretary of state shall annex to the letters patent a certified copy of the charter, retaining the original, and before delivering the letters patent shall record them and charter in a book kept for the purpose. He shall receive from the corporation before such delivery a charter fee of \$100, besides such other fees as are allowed by law.

The letters patent, with the certified copy of the charter, shall be recorded in the office of the clerk of the circuit court of the county where the place of business is to be located, and there shall also be filed a statement of the subscribers, who shall duplicate affidavit by the treasurer of the company, that ten per cent. of the capital stock has been subscribed and paid. If the corporation transacts any business before complying with above requirements, its stockholders shall be personally liable to the creditors of the company.

STOCK. The stock of corporations shall be deemed personal estate, shall be divided into shares of not less than one share, shall be paid for in lawful money of the United States, unless otherwise provided in the charter, and shall be subject to the laws, to be prescribed in the by-laws. The property of a stockholder shall be exempt from the debts and liabilities of a corporation contracted in its corporate capacity except the stock of said stockholder in said corporation, and that one to an extent equal to what remains unpaid upon the subscription to said stock.

INTERNAL POWERS OF CORPORATIONS. To have succession for period limited in its charter, and, when no period is limited, perpetually, to sue and be sued, to have a seal, adopted and used, and to alter and amend its charter at pleasure, when special provision is not made by law or otherwise, to hold, buy, convey or mortgage such personal or real estate as purpose of corporation shall require, also to take, hold and convey such other real and personal property as shall be necessary for the corporation to acquire in order to obtain or secure the payment of any indebtedness or liability to it, to appoint such subordinate officers and agents as affairs of the corporation shall require, and to allow such subordinate officers and agents to sue and be sued, to diminish by vote of its members, cast as by-laws may direct, the number of directors, managers or trustees, so, however, that the number shall not be less than three nor more than thirteen.

BY-LAWS. The business of the corporation shall be managed by a president, a board of directors, a treasurer or cashier, and such other officers as the corporation may authorize. A majority of the whole number of directors shall be necessary to constitute a quorum. One of the directors shall be chosen president.

facts necessary to constitute a lien under the code. If the defendant contests the amount of the claim, he shall file his affidavit of the fact, setting forth such denial, which affidavit shall form an issue to be returned to the court and tried as other causes.

MINING.

RIGHTS OF WAY FOR PERSONS ENGAGED IN MINING.—Any person or corporation engaged in mining, needing for the successful prosecution of such business a right of way for a railroad, turnpike or common road across the lands of others, or where it is necessary to divert any water-course from its usual channel, it shall be lawful to organize a board of arbitrators, who shall determine as to the necessity, who are damaged, and how much. It shall be the duty of the arbitrators to summon before them all the parties interested and such witnesses as are necessary, and return their award to the superior court on the first day of the term held thereafter; and at such time all of the parties affected thereby shall have the right of appeal to said superior court.

PRIVILEGES INCIDENTAL TO MINING. The owner of any mine shall have the right to enter upon any land intervening between the mine and the water-course, and to dig, dig, sand, dependent, and to cut thereon such ditch, canal or tunnel, or construct such flume or other apuduct, and build such dam, as may be necessary to control said power; provided, he shall first have the damages assessed, and shall pay to the owner of the land so intervening the damages which may be assessed in the matter hereinafter provided. He shall give to the owner of the land at least five days' notice of his intention to make application, present to the ordinary of the county his written application, which application shall describe the land to be entered on, the privileges desired thereon, and the name of the owner; and the owner of the mine shall thereupon select one freeholder, the owner of the land another freeholder, and the ordinary of the county shall appoint a third freeholder. The said three freeholders shall survey the premises and make an award of the damages, which award shall be returned to the ordinary of the county and filed in his office; and such award, unless appealed from as hereafter provided, shall be final. But no right of entry shall accrue until the damages assessed are first paid. The fees of the ordinary and of the freeholders for said services shall be \$2 each, which shall be paid by the applicant.

DRAINAGE privileges are obtained under and according to the provisions and regulations respectively above, all of which are hereby extended to the owners of mines desiring to drain their mines and to carry off the water and tailings through or over the lands of others.

INCORPORATIONS.

HOW FORMED. To create a corporation a paper is drawn up and signed, called articles of incorporation. This paper must contain the name of the corporation, the purpose for which it is formed, the place where its principal business is transacted, the term for which it is to exist, not exceeding fifty years; the number of directors and the names and residences of those appointed for the first year, the amount of its capital stock and number of shares in which it is divided, the amount of capital stock actually subscribed and the names of the subscribers. These articles of incorporation must be signed and acknowledged by at least five persons, a majority of whom must be residents and freeholders. If the corporation be for the construction of a railroad, telegraph line or wagon road, it must have a certain amount of capital subscribed for each mile intended to be constructed. These articles of incorporation are filed for record with the county recorder of the county where the principal place of business for the company is. A certified copy of these articles made by the county recorder is filed with the secretary of state, and the secretary of state or county recorder then issues a certificate showing that these papers have been filed in his office; and upon the issuance of this certificate the organization becomes a corporation by the name stated in its articles for the term therein stated, not exceeding fifty years.

BY LAWS. Every corporation must adopt a code of by-laws within one month after filing its articles of incorporation. These by-laws must not be inconsistent with the law, and must be passed by a majority of all the stockholders at a meeting called for that purpose, of which due notice has been given.

OFFICERS. The directors of a corporation must be elected every year. If the by-laws contain no provision for the time of election, then the election must be on the first Tuesday in June. The board of directors cannot be more than eleven nor less than five in number, and a majority of them must be citizens and residents of the state.

POWERS. Corporations may make their own by-laws, elect their own officers, own property, sue and be sued, and generally do any business which private individuals might lawfully do.

DISSOLUTION OF. Corporations are dissolved by the district court of the county upon voluntary application, and in no other way. This application must be in writing, must state that at a meeting of the stockholders dissolution was agreed to by two-thirds of all the stockholders by vote, and that all claims and demands against the corporation have been satisfied and discharged. This application must be signed by a majority of the board of directors and filed in the court. If the court finds that the application is in form, he orders it filed and directs the

clerk to give thirty days' notice by publication in some newspaper. Any person may appear and object, and if any objections are made the court hears and determines the matter, and if the statements of the application are found to be true he enters a judgment dissolving the corporation.

DEBTS. Corporations may not incur debts beyond the amount of the subscribed stock.

FOREIGN CORPORATIONS. If a foreign corporation shall appoint any person residing in this state as the principal place of business of such corporation in Idaho, as the person upon whom legal process may be served, and file such appointment with the secretary of state and in the office of the clerk of the district court of the county where the foreign corporation may do business, such corporation shall be deemed to have all the rights and privileges of the corporations of this state, including the right of eminent domain; and such foreign corporation also becomes subject to the laws of the state applicable to like domestic corporations.

LIENS.

Liens are given for material furnished in the construction or repair of any building, mining claim, bridge, fence, machinery, railroad, wagon-road or apuduct to create hydraulic power, by virtue of contract with the owner or his contractor. The lien attaches to the improvement and to enough adjacent land for its convenient use, and is superior to any other incumbrance created after the first of the material is furnished. To secure the lien the contractor must within sixty days from the completion of the contract, and the sub-contractor within thirty days, file notice and claim of lien in the county recorder's office. The lien is foreclosed by the filing of the notice in the court, begun within ninety days from the filing of the notice.

MINING.

WIDTH OF CLAIMS. Mining claims heretofore located upon veins or lodes of quartz or other rock in place, or any metals or other valuable deposits, may extend to three hundred feet on each side of the middle of the vein or lode. The locator of any lode or mining claim must at the time of making the location place a substantial stake, post or monument, not less than four inches in diameter, at each end of the ground claimed, as near as practicable to the middle, and also a similar mark at each corner of the location, such marks to be at least four feet high and must be marked distinctly with the name and location of the claim.

NOTICE. The notice of location must be conspicuously attached to one of said center and posts so that it may be easily read, or it must be posted at the place of location. The notice must contain the date of location, names of locators, name of claim, ledge or lode and quantity in feet claimed along the ledge or lode, the width claimed from the middle of the vein, and must also give such details of the location of the lode or vein to natural landmarks as to render the situation of the same reasonably certain from the notice itself.

WHEN TO BE RECORDED. Every claim must be recorded within fifteen days from the date of posting the notice in the district in which the claim is located, or at the nearest office. For the convenience of prospectors and locators the county recorders of the several counties must appoint a deputy at any place where they deem it necessary, and in all places more than ten miles distant from the existing office whenever ten or more mining locators interested petition for such appointment. Upon failure to make such appointment for ten days after receipt of petition the resident miners may temporarily appoint one of their own number to act as recorder, and his record shall be as valid as though made by deputy, provided, that whenever the recorder appoints a deputy for that district the authority of the person elected by the resident miners ceases. At the time of presenting a notice for record, or within five days thereafter, one of the locators named in the same must make and subscribe an affidavit in writing on or attached to the notice which must contain the name of the lode, ledge or claim, and must state that the claim therein described or any part thereof has not before been located according to the law of the state, and that the lode or vein so located has been abandoned or forfeited by reason of the failure of the locators to comply with the law.

HOW RECORDED. The notice herein required to be recorded is submitted to the recorder of the county in which the claim must be recorded by the deputy appointed by the district recorder or the person elected for that purpose when the legal fee is tendered, in the book to be kept for that purpose. Said book must contain the names of all locators, the date of location, the order. The fee to be tendered for making such record, administering the oath and certifying the same, and for indexing the names occurring on the notice, and to include recording of the notice, is \$2. The fee is \$2 when the notice is recorded between the recorder and the deputy, and no other or additional sum of money must be demanded or received by either of them for any services connected with the recording of any notice of location made pursuant to the requirements of this statute.

DEPUTY TO THE SECRETARY OF RECORDING. The deputy recorder of mining claims of each district or the person elected in his place must at least once a month transmit to the recorder at the county seat all notices of location filed with him for record not previously transmitted at once. The recorder or deputy recorder may book to be kept at his office and known as the book of mining claims.

DEPUTY RECORDERS DEBTS. Deputy recorders provided for by this law are not authorized to perform any other than the special duties herein specified. They must keep an official seal, and the records in their custody are public records, and the seal of a deputy recorder must not be attached to any paper except for the purpose of authenticating certificates attached to transcripts in his custody.

PLACER CLAIMS, LOCATION OF. Placer claims may be located under like circumstances and conditions and upon similar proceeding as far as applicable to those provided in the case of lode claims.

MARKING THE GROUND AND NOTICE. The locator of any placer mining claim must at the time of location place a substantial stake or monument at each corner of the location, and post on each a notice of location as required in case of a lode claim.

RECORDING. The same affidavit must be attached to the notice of location of every placer claim, and notice and affidavit must be filed for record the same day for lode claims.

RIGHT OF WAY. The owner, locator or occupant of a mining claim may have and acquire a right of way for ingress and egress when necessary in working such mining claim over and across the lands or mining claims of others. When any mine or mining claim is so situated that for the convenience and enjoyment of the same a road, railroad or tramway therefrom, or a ditch or canal to convey water thereto, or a ditch, flume, cut or tunnel to convey water or tailings therefrom, or a tunnel or shaft may be required for the better workings thereof, which road, railroad, tramway, ditch, canal, flume or tunnel may require the use or occupancy of lands owned, occupied or possessed by others, the owner, claimant or occupant of the mine or mining claim first mentioned is entitled to a right of way and to the use and possession of such uses and privileges. For such purposes a road, railroad, tramway, ditch, canal, flume or tunnel, in, upon, through and across such other lands or mining claims may be constructed upon compliance with the following provisions: When the owner, claimant or occupant of the mine or mining claim desires the right of way above mentioned and which cannot be acquired by agreement with owner of lands or claims over, under, across or upon which he seeks to establish this way, he may present to the judge of the district court for the county in which is situated such right of way of some part thereof sought to be enforced a petition that such right of way be awarded him. Such petition must be verified and contain a particular description of the nature and extent of the right sought, a description of the mine or claim of petitioner and the claim of lands to be affected by such right, with the names of the owners or occupants thereof.

CLATON. Upon receipt of such petition and filing same with the clerk of the court the judge must direct a citation to be issued under the seal of such court to the owners named in the petition to appear before the judge at a certain time named and advised and show cause why such right of way should not be allowed. Such citation must be served on each party in the same manner as other legal papers.

HEARING. On the return day of the citation the judge must proceed to hear the objections and proofs of the respective parties, and if on such hearing he is satisfied that the claims of the petitioners can only be conveniently worked by means of the privileges prayed for, he must award to the petitioner such right of way, and must appoint three disinterested persons to assess the damages to be paid by the owner of the lands affected by such order.

COMMISSIONERS. The commissioners must, without reason able delay, assess the damages and report the amount of the same to the judge. For good cause this report may be set aside and three other commissioners appointed.

APPEAL. Appeals from the assessment of damages made by the commissioners may be made and presented in the proper district court by any party interested, at any time within ten days after filing the report of the commissioners. Notice of such appeal must be served upon the appellee in the same manner as summonses are served in civil actions. The appellant must file with the clerk of the court to which the appeal is taken a bond, with sureties, in the amount of the assessment appealed from, in favor of the appellee, conditioned that the appellant will pay any costs that may be awarded to the appellee and abide by any judgment that may be rendered in the cause. The prosecution of the appeal does not hinder, delay or prevent the appellee from exercising all the rights and privileges existing under the same title with the clerk of the court, and a bond on which the amount of the assessment appealed from, conditioned that the appellee will pay to the appellant all damages he may sustain and the amount he may recover in the action.

COSTS. If the appellant recover judgment against the necessity of the payment of such damages, then the commissioners awarded or the appellee has offered to allow, the appellee must pay the costs of the appeal, otherwise the appellant must pay such costs. The costs and expenses of proceedings under the provisions of this act, when they are not otherwise provided for, must be paid by the party making the application, unless the applicant before commencement of such proceedings has tendered to the parties owning or occupying the claims or mining claims a sum equal to the costs and expenses of such proceedings. In such case the costs and expenses must all be paid by the parties whose lands were affected by such right of way and who resisted the claim of the applicants.

MINER PARTNERED PROPERTY. The mining ground owned and worked by partnership or joint interest, purchased with partnership funds or not, is partnership property.

PARTNERSHIP NOT DISSOLVED BY SALE OF INTEREST. One of the partners may sell his interest without dissolving the partnership. The new partner takes subject to the claims of the old partner.

CONTRIVANCE WITH S. RIGHTS. No member of a partnership or agent or manager can bind it by contract except by express authority derived from the members thereof.

WINDY ALY CROWN. Any person, whether citizen or alien, may own any mine or prospect that lies in Chinese or persons of Mongolian descent born in the United States can acquire any title to land or mineral estate.

WATER RIGHTS.

The right to the use of running water may be acquired by appropriation, if it be for any useful purpose. As between the appropriators, the one first in time has the right. A person who desires to appropriate water must post a notice of the position of the intended diversion, stating its purpose and means by which he intends to divert it, and must begin work on such ditch, pipe or aqueduct as he intends to use, and must continue such work until finished, unless temporarily interrupted by snow or rain. He must also file a copy of the notice above mentioned within ten days with the recorder of the county in which said notice is posted. A failure to comply with this rule deprives the claimant of the right as against a subsequent claimant who does.

ILLINOIS.

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CORPORATIONS.

FORMATION OF CORPORATIONS for pecuniary profit for any lawful purpose except banking, insurance, real estate brokerage, the operation of railroads and the business of loaning money, are authorized under the general statute. The incorporation of corporations for pecuniary profit. To obtain a charter from the state, the persons who propose to form the corporation, not less than three nor more than seven, must make, sign and acknowledge a statement setting forth the name of the proposed corporation, the object for which it is to be formed, its capital stock, the number of shares, the par value of each share, the location of the principal office, and the duration of the corporation, which must not exceed twenty years. This statement is then filed in the office of the secretary of state, who thereupon issues to such persons a license as commissioners to open books of subscription to the capital stock of the corporation. The capital stock must be all fully subscribed, and the commissioners must then convene a meeting of the subscribers for the purpose of electing directors. Notice of such meeting must be given by depositing in the postoffice, addressed to each subscriber, ten days before the time fixed, a written or printed notice, stating the time, place and object of the meeting. At these subscribers' meeting, every subscriber has the right to vote all shares subscribed by him. In voting, he may cumulate his votes so as to cast as many votes for any one candidate as is equalled by the number of shares he has subscribed for, or he may vote for several. He also has the privilege of distributing his votes among as many candidates, on the same principle, as he may desire. An election of directors which disregards this right is invalid. The election may not be divided into two or more classes, the term of office of one class shall expire on the day of the next annual election, the second class a year thereafter, and the third class two years thereafter. When so divided, the stockholders elect each year for the full term of three years a majority of the class in that particular class whose term expires. Vacancies in the board of directors are filled in accordance with the by-laws of the corporation.

When the directors have been elected, as above stated, the commissioners make a full report of their proceedings, including a copy of the notice to the subscribers, a copy of the subscription list, the names of the directors and their respective terms of office. This report is sworn to by a majority of all the commissioners and filed in the office of the secretary of state. The secretary of state thereupon issues a charter or certificate of organization and attaches thereto a copy of all papers filed in his office in and about the organization of the corporation. This charter is then recorded in the office of the recorder of deeds of the county where the principal office of the company is located.

BY-LAWS. A corporation may adopt such by-laws as it sees fit, but they must not violate or contravene any of the statutes of the state, nor the number or term of office of any officer, nor the term of office of more than one officer without the consent of the owners of a majority of the stock.

ELECTIONS. The annual elections for directors occur at such time as may be fixed by the by-laws, and may be changed from time to time by changing the by-laws.

PLACE OF MEETING. Directors' meetings may be held with the consent of a majority of the directors at any place within the United States, but the main office of the transaction is fixed in the state in which the state and must be that designated in the articles of incorporation.

OFFICERS. The officers of the corporation must consist of a president, secretary and treasurer and such other officers as the directors may determine.

LIABILITY OF STOCKHOLDERS. Every subscriber is liable for the whole amount of stock subscribed for by him, and must pay for the same to the extent of paying in full for his stock. If he fails to do so, he is liable for the balance of the stock, and the assignee is liable for the unpaid balance on the stock until it has been fully paid for. There is no liability on the part of stockholders after their stock has been paid for.

LIABILITY OF OFFICERS. If it is established that the officers of a corporation exceed the amount of its capital stock, the directors who assent to the creation of such debt are personally liable to the creditors of the corporation for the excess of debts over the amount of capital stock.

CONTINUANCE. Corporations continue for two years after the expiration of the time for which they were organized, for the purpose of winding up their affairs.

FAILURE TO ELECT OFFICERS. A failure to elect officers or to transact corporate business does not have the effect to dissolve the corporation, but an officer may be held and new officers elected at any time after proper notice.

DISSOLUTION OF CORPORATION. If a corporation does or refrains from doing any act which subjects it to a forfeiture of its charter or allows an execution for payment of money to be returned on property found or remain unpaid ten days after demand by the officer having such execution, or shall dissolve or cease doing business leaving debts unpaid, suit may be brought in equity against the stockholders who have not paid for their corporate stock and each stockholder may be required to pay on his unpaid subscription his pro rata share of the debts which exist and are unpaid. The court also has full power upon good cause shown to dissolve or close up the business of a corporation or appoint a receiver to take care to close up its affairs.

FOREIGN CORPORATIONS. Foreign corporations are subject to all the liabilities, restrictions and duties that are imposed upon corporations of like power organized under the laws of this state, and have no other or greater powers.

EMINENT DOMAIN.

Private property may be taken for public use, for public roads, for railroads, roads to mines and mills, but not without compensation first made.

If the party authorized to take or damage the property required for such purpose may apply to the judge of the circuit or county court by filing a petition setting forth the authority and purpose for which the property is to be taken, a description of the property and the names of the persons interested in the property. It known, the judge orders a summons issued to each resident defendant and not be published to each non-resident defendant. The case may be heard in vacation or ten or ten days service of process. Any number of separate pieces of property may be included in one petition and if it is the same county, but the compensation must be assessed separately by jury. New parties may be brought before the court whenever necessary. When the summons is issued the clerk may cause a list of the names of the interested parties to be sent to the sheriff's jury of twelve to be selected by lot. This jury is sworn, examines the property, hears the proof and makes a written report under the direction of the judge, showing how much damage each person is entitled to. Benefits or advantages to the property because of the improvement must be deducted from the compensation. Upon receiving the report the judge makes an order that the petitioner may enter upon the property for the purpose specified, upon the payment of the assessed damages and costs.

APPEALS. From the decision of the court to the supreme court. If the party whose property is damaged appeals, the petitioner may enter upon the use of the property before the appeal is decided. If a person's land cannot be used, the compensation is to be ascertained. The compensation may be paid to the county treasurer, and he shall, on demand, pay it to the party entitled thereto.

LEASES.

Persons furnish no materials under contract with the owner of any lot or parcel of land for the erection or repair of any building, or the erection or improvement thereon, are entitled to be paid upon the building and lot or land for the amount due. Sub-contractors and workmen are required except where the sworn statement of the contractor serves to give the owner due notice to give notice of the claim for a lien within ten days after the completion of the sub-contract or within ten days after payment should have been made to him. Whenever the original contractor desires to draw any money from the owner under his contract, he must give the owner a statement under oath of the amounts due or to become due to each, and owner shall retain out of money due contractor, sufficient to pay them. Until such statement is made, contractor has no lien or right of action against owner. If contractor has received such statement, and is not returning enough to pay what is or will become due sub-contractors and workmen, the payment is illegal, and does not deprive sub-contractors or workmen of their rights. To enforce the claim to lien, a holding in equity must be obtained, and the defendant, holding the contract for the amount due and unpaid, a description of the premises, and such other facts as fully disclose the rights of the parties. All persons interested in the equity may be brought in as parties to the suit. If there be several persons a distribution may be made between them, if necessary, and the owner cannot be required to pay more than the amount contracted to be paid to the principal contractor. There is no preference between lienholders. The liens are preferred to all mortgages and take preference over such prior mortgages on the building, but not upon the land, and the whole property may be ordered sold and the proceeds thereon of workmen within ten months, and by contractor within six months, from the time the material was furnished. The lien exists for all materials furnished to any railroad corporation necessary to the construction, maintenance or repair of its railroad, and six months from the date of the delivery in which the contractor thereon. If the railroad contractor fail to complete his contract, any sub-contractor may, within three months, by suit in equity, have the lienholders' rights adjudicated and established. Any sub-contractor who sues within thirty days after notice to do so from any person interested.

MILLS.

MILL SITES. Any person owning land on one or both sides of a lot owned by a holder of a right of way, mill or right of a private dam, may, if the compensation for the land taken cannot be agreed upon, cause the damage to be appraised by filing a peti-

tion in the county or circuit court and giving notice to all persons interested. Both personally and by sixty days' publication in some newspaper. After the requisite notice has been given, a jury is selected to ascertain and report just compensation and decide whether the health of the neighborhood will be injuriously affected. If not, and the improvement will be injuriously affected, the landowner is allowed to make the improvement by paying damages assessed by the jury. Applicant has three months after jury report in which to decide whether he will pay amount fixed by the jury. If he does not accept the report, he must pay the damages at an earlier date, and he must pay the damages with all costs and a reasonable attorney's fee, and must make the improvement in from one to three years, according to its nature. If the improvement, after creation, be destroyed, the owner has six years in which to re-erect it.

RIGHT TO WILLIAMS, RAKE, ETC. To maliciously impair, remove or destroy any canal, levee, dam, reservoir or trench, or the gear or machinery of any mill, or to draw off, or procure to be drawn off, the water from any millpond, reservoir, canal or trench, whereby any water-power is injured or its use impaired, is an offense punishable by fine of \$500 or imprisonment for one year.

MILLS IN VILLAGES AND CITIES. The municipal board in each city and village have authority to allow the construction of such restrictions as they may deem proper.

MIXING.

MINES, ROADS AND RAILROADS. Whenever any mine cannot be worked without a road or railroad thereto or a ditch or drain to convey water to or from it, the owner or operator of the mine may appropriate the land and construct such other highway or ditch by proceeding under the law relative to eminent domain.

WAYS AND RAILROADS TO MINES. The commissions of highways may cause to be laid out and opened public highways or private easements from any coal mine to a public highway or a railway in the same way as public highways are laid out. They may also permit the owner or operator of the coal mine to construct and operate a horse or dummy railway thereon or on any other highway, but such mine shall be so constructed as not to unnecessarily interfere with public travel.

TRESPASS BY MIXING. If the owner of land adjacent to a mine makes written complaint under oath to any judge in the county where the mine is situated, stating that he fears economic grounds, he and does believe that the owner or operator of the mine is trespassing on his lands by mining, the judge must appoint a county surveyor or other suitable person to descend into the mine and make such examinations and surveys as may be necessary. The person so appointed has the right to descend into the mine and make examinations and surveys, and if any person obstruct or hinder him from entering the mine or performing his duty he shall be fined not more than \$500. If any person so appointed from a judge and then refuse to make the survey, he commits a contempt of court and may be fined \$500. The expenses of such examinations must be paid by the complainant, but if the complainant recovers damages against the mine owner for mining on his land, the expenses shall be added to the damages. Whoever willfully trespasses on the land of another by mining thereon shall pay the damages and also be liable to the penalty of not over \$500, to be collected by the owner of the land trespassed on.

RIGHT OF MINING AND THE RIGHT TO DIG FOR ANY MINERAL ON THE LAND MAY BE SOLD, LEASED OR CONVEYED BY DEED OR LEASE TO BE ACKNOWLEDGED AND RECORDED THE SAME AS LIKE INSTRUMENTS AFFECTING REAL ESTATE. The conveying by deed or lease of a mining right separates such right from the land, and such right and the land are dealt separately, the same as though they were separate pieces of real estate.

RECORD OF LEAD MINES. All persons purchasing lead mineral or keeping a claim in keeping an account of all lead mineral bought by him is kept. The amount, from whom and when purchased and the place where such mineral was dug must be entered in such book. The party purchasing must make diligent inquiry of the person offering the mineral for sale, and if he knows that the purchaser is unworthy to buy it. Such purchaser must keep his book at his place of business, open at all reasonable times for inspection by miners, owners of mineral land and shufflers. If he refuses to do so, within ten days after making such purchase report to the nearest shuffler of lead ore, and the shuffler shall make the same record in his book. Purchasing lead mineral from children under twelve years of age, or from persons who have not been examined by a shuffler, is a crime. A true copy of such purchases renders the offender liable to a fine not varying from \$5 to \$25 for each offense.

MAP OF COAL MINES. The owner, operator or superintendent of any mine must make and keep an accurate map of the mine, showing in detail thereon, the section lines of the land and the direction of the air currents of the mine. This map must show the date of each survey. If more than one seam of coal is worked, a separate map must be made of each seam. A true copy of this map must be delivered to the state inspector of mines for the district and by him filed and retained for reference. Such maps are the property of the state, and are open to the inspection of the public, and in July of each year a map must be made and filed before the new and all corrections must be kept at the mine. If a coal mine is about to be abandoned, a map must be completed and filed before abandonment. If the operator of the mine fails to furnish a satisfactory map the inspector causes one to be made at the owner's expense.

ESCAPEMENT SHAFT. For all coal mines where more than six men are employed there must be, in addition to the hoisting shaft opening, a separate escapement shaft so that there will be

INDIANA
CORPORATIONS.

HOW INCORPORATED.—Whenever three or more persons may desire to form a company to carry on any kind of manufacturing, mining, mechanical or chemical business, they shall make, sign and acknowledge before some officer capable of taking acknowledgment of deeds a certificate in writing, which shall state the corporate name, the object of the company, the amount of capital stock, the term of its existence (not, however, to exceed fifty years), the number of directors and their names who shall manage the affairs of such company for the first year, the name of the county and county in which its operations are to be conducted, and file the same in the office of the recorder of said county, which certificate shall be placed upon the record, and a duplicate thereof in the office of the secretary of state.

WITS.—Incorporated. When the certificate shall have been filed as aforesaid, the signers shall be a legal public and corporate, and by their corporate name may take, hold and convey real estate necessary to carry on the operations named in such certificate.

DIRECTORS.—The business shall be managed by not less than three nor more than eleven directors, who shall be stockholders therein and residents of the United States. A majority of the directors shall be a quorum. They shall be elected by the stockholders annually, and the stockholders shall elect the president thereof. They shall also annually elect a secretary and a treasurer, who shall respectively give bond, and be sworn to the faithful discharge of the duties assigned to each of them. Voting by proxy is allowed, each share of stock entitling the owner to one vote.

CAPITAL STOCK.—The amount of capital stock shall be fixed by the company, but may be increased by vote of the stockholders at any annual meeting. Such stock is transferable in such manner as the by-laws may prescribe, but the funds of such corporation cannot be used to purchase stock in another corporation, only upon the written consent of all the stockholders of the company to purchase said stock, and also the written consent of all the stockholders of the corporation in which stock is sought to be purchased.

PAYMENT FOR STOCK.—The capital stock shall be paid into the treasury within eighteen months from the incorporation of the same, in such installments as the by-laws direct.

CERTIFICATE OF PAYMENT TO BE FILED.—The president and directors, within thirty days after the payment of the last installment of the capital stock, shall make a certificate stating the amount of the capital stock so paid, and paid in, which they shall sign and within thirty days file in the office of the clerk of the circuit court.

REDUCTION OF CAPITAL.—Every such company, at a meeting called for that purpose, may reduce the capital stock of the same, as provided in the by-laws. Such reduction shall be made within twenty days from the 1st day of January make a report, which must be published in some newspaper in the county, which shall state the amount of capital, the amount of assessments made and actually paid in, and the amount of existing debts, which report the said president and directors shall sign and verify by their oaths.

LIABILITY OF OFFICERS.—If said certificate or report of public officer shall be false, or if such company shall be found to be misled or deceived thereby and damaged, then and in any such case, the officers who shall sign the same, knowing it to be false, or fail in giving the report as aforesaid, shall be jointly and severally liable for any damages resulting from such failure on their part.

LIABILITY OF STOCKHOLDERS.—The stockholders of manufacturing and mining corporations shall only be liable for the amount of stock subscribed by them respectively, provided, they shall be individually liable for all debts due and owing laborers, servants and employees for services rendered such corporation.

LIES.

HOW ACQUIRED.—In all coal mines in this state the miners and other persons employed and working in and about the mines, and the owners of the land, and others interested in the rental or royalty of the coal mined therein, shall have a lien on said mine, and on all machinery and fixtures connected therewith, for work and labor performed within two months, and the over of the land for royalty on coal taken out from under his land for any length of time not exceeding two months, and such liens shall be paramount to and have priority over all other liens, except the liens of the state for taxes, and such liens shall have priority as against every other lien in the order in which they accrue, and for labor and royalty on coal. To acquire such lien, such person shall file in the recorder's office in the county where the coal mine is situated, within sixty days from the time of the payment becoming due, a notice of his intention to hold a lien upon such property for the amount of his claim, stating in such notice the amount of his claim, and the name of the coal works, if known, or any other designating or describing the location of said coal mine, and the person shall record the said notice, when presented, in the book used for recording mechanics' liens, for which the recorder shall receive a fee of 25 cents.

LIENS BROUGHT TO ENFORCE.—Any lien herein created shall be brought within one year from the date of filing said lien. All wages for working in and about the mine shall be due and payable on the second Saturday of the month after the month in which the work was done, and all payments shall be made in bankable funds of the state of Indiana.

MINING.

NUMBER OF EMPLOYEES. OUTLETS. WATER.—It shall not be lawful for more than ten persons to work in any mine in every

twenty-four hours, after five thousand square yards have been excavated, until the second outlet shaft have been made. Said outlet shall be separate from the hoisting shaft by at least one hundred feet of natural strata, and shall be available at all times to all employees engaged in the mine. The traveling roads to said outlet shall not be less than four feet high and three feet wide.

AIRWAYS.—Airways shall be made in every room, at least every seventy-five feet. The doors used in assisting ventilation of the mines must not be left standing open.

TIMBER.—A sufficient supply of timber shall be kept at the mine, so that the workmen may be able to properly secure the workings from caving in, and props of proper length shall be delivered to the rooms of the workmen when needed and required.

SIGNALS.—There shall be a formal system of signals at all shafts in this state, with a signal bell at the bottom of each shaft.

SAFETY LAMPS.—There shall be provided in all coal mines a metal tube from the bottom of the shaft, suitably adapted to the free passage of sound, through which conversations may be held between persons at the bottom and top of the shaft.

EXAMINING MINE.—Before a mine shall be abandoned, a survey shall be made thereof, the mine properly staked on the surface, and a map made and filed within thirty days thereafter at the office of the county recorder, and said map shall have attached thereto the affidavits of the surveyor making the map, and of the mine boss in charge of the underground workings of said mine.

PROVISIONS AS TO GAS AND WATER.—When the place is likely to contain a dangerous accumulation of water or gas, the workings approaching such place shall not exceed eight feet in width, and there shall be constantly kept one bore-hole near the center of the workings, and sufficient plank bore-holes on each side.

MINING BOSS.—A mining boss, who shall have an experienced coal miner, shall be employed to keep a current watch over the ventilating apparatus and airways, and see that, as the miners advance through the excavations, all loose coal, slate and rock overhead are carefully secured against falling therein, and traveling airways.

He shall measure the air current at least once a week at the inlet and outlet. He shall also, about the first of each month, mail to the inspector a copy of the air measurements, the number of persons employed in or about the mine, the number of miles and hours worked, and the number of days worked in each month. None but experienced, competent and sober engineers shall be placed in charge of the engine used for conveying into and hoisting persons out of such mine.

EXAMINING SHAFES.—The top of every such shaft shall be securely fenced off, and covered to the mouth thereof; and approved safety catches shall be attached to every such cage used for the purpose of hoisting or lowering persons.

INSPECTOR. APPOINTMENT. QUALIFICATION. CERTIFICATE OF OFFICE.—The state geologist shall appoint an inspector of mines, who shall hold his office two years and until his successor shall be appointed and qualified; provided, however, that all applicants for such office shall be required to pass a satisfactory examination, which examination shall be wholly under the control of the state geologist, who shall give a certificate of appointment to the person appointed. The inspector of mines shall appoint an assistant, who shall pass such examinations touching his qualifications for such position as may be prescribed by such inspector of mines.

RESIDENTS. PRIVATE MINERS. NON-INTEREST IN MINE.—The inspector of mines and his assistant shall be residents of the state of Indiana for five years immediately preceding their appointment to office, and shall be practical miners of at least ten years' experience in actual mining. He shall not have any pecuniary interest in any coal mine within the state, and he and his assistant shall file with the secretary of state a sufficient bond or bond for the faithful performance of the duties of the office, and make an annual report to the state geologist of all matters now required by law to be reported by the mine inspector, which report shall be published with the report of the state geologist.

SALARIES.—The salary of the inspector of mines shall receive for his services \$1,000 per annum, and such assistant \$1,000 per annum, \$300 per annum shall be made over to the inspector of mines for the necessary expenses of himself and assistant in the performance of their duties.

PROHIBITED EMPLOYMENT OF PERSONS.—No female of any age or male under the age of fourteen years shall be permitted to enter any coal mine in this state for the purpose of employment therein.

MINES, CORPORATIONS, COMPANIES, ASSOCIATIONS, FIRMS AND PERSONS ENGAGED IN MINING.—All shall pay to their employees every two weeks the amount due such employees for labor, and such payment shall be in lawful money of the United States.

INDIAN TERRITORY

(CHEROKEE NATION)

MINING.

MINERALS THE PROPERTY OF THE NATION.—All minerals existing in their natural state within the limits of the Cherokee country are the property of the Cherokee Nation.

RIGHTS TO MINE, ETC.—How OBTAINED. Every bona fide citizen of this nation wishing to mine minerals, or manufacture salt, or to engage in the collection or refining of coal oil or petroleum, or the manufacture of medicinal waters, shall make application in writing to the treasurer of the nation for that

purpose, stating the minerals he wishes to cooperate in, the number and names of the stockholders of the company, where located, and the terms and bounds of the reservation on which he proposes operating, provided he does not infringe upon the rights of any other citizen or mining company. He shall not operate a second claim without having surrendered the first.

LICENSE. Before beginning the work he shall obtain from the treasurer a license for that purpose, and shall, at the same time, execute to the Cherokee Nation a satisfactory bond in the sum of \$2,000, with sufficient security, conditioned upon compliance with the requirements of this act.

REPORTS. He shall pay under oath to the treasurer quarterly the gross amount of minerals mined, salt manufactured or minerals lavas prepared for sale during each quarter preceding such report, and at the same time pay into the treasury, for the benefit of the school or orphan funds, a sum equal to five per cent. of the value of such minerals at the time of sale. He shall also report to the treasurer, at once, any other minerals found upon the reservation, and shall then have the right to the same by incorporating it into the original contract.

PAYMENTS. Every citizen of the nation who shall make a grant to any person other than a citizen of the same shall be fined a sum not to exceed \$2,000 for each offense, and forfeit his lease and bond.

No lease shall be granted for a longer period than ten years, but the privilege is extended to the lessee to renew his lease upon the payment of all arrears to the nation.

TOWNS

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CORPORATIONS

FORMATION OF. The constitution provides that no corporation shall be formed by special laws, but the general assembly shall provide for the incorporation of corporations. The corporation shall be subject to taxation the same as that of individuals, that the state shall not become a stockholder in any corporation, nor shall it assume or pay the debt or liability of any corporation, unless incurred in time of war for the benefit of the state.

DIVISION OF. The statute has divided corporations into, first, those "for pecuniary profit," second, those "not for pecuniary profit."

No number of persons may associate themselves and become incorporated for the transaction of any lawful business. Among the powers of such body corporate are the following:

1. To have perpetual succession.
2. To sue and be sued by its corporate name.
3. To have a common seal, which it may alter at pleasure.
4. To tender the interest of stockholders transferable.
5. To exempt the private property of its members from liability for corporate debts.
6. To make contracts, acquire and transfer property, possessing the same powers in such respects as private individuals may enjoy.
7. To establish by-laws, and make all rules and regulations deemed expedient for the management of their affairs in accordance with law.

COMMENCEING BUSINESS. Previous to commencing any business except that of organization, articles of incorporation must be adopted, which must be signed and acknowledged by the incorporators, and recorded in the office of the recorder of deeds of the county where the principal place of business is to be.

The articles must be recorded within five days by the recorder, and he must enter thereon the time when the same was filed in his office, and the book and page where the record thereof will be found.

The articles and certificate of recorder shall then be recorded in the office of the secretary of state.

The articles of incorporation must be filed with the highest amount of indebtedness or liability to which the corporation is at any one time to be subject, which must in no case, except in that of risks of insurance companies, exceed two hundred of the capital stock.

1. The name of the corporation and its principal place of transacting business.
2. The general nature of the business to be transacted.
3. The amount of capital stock authorized, and the times and conditions on which it is to be paid in.
4. The time of the commencement and termination of the corporation.
5. By what officers or persons the affairs of the corporation are to be conducted, and the times at which they will be elected.
6. The highest and greatest amount of indebtedness to which the corporation is at any time to be subject itself.
7. Whether private property is to be exempt from corporate debts.

The corporation may commence business as soon as the articles of incorporation are filed in the office of the recorder of deeds, and the dues shall be valid if the publication in the newspaper is made and articles recorded in the office of the secretary of state within three months from such filing in the recorder's office. The provisions of the articles of incorporation may be changed at any annual meeting of the stockholders, or special meeting called for that purpose, but are not valid unless recorded.

as the original articles are required to be, said changes need only be signed and acknowledged by the officers of the corporation.

DISSOLUTION OF. No corporation can be dissolved prior to the period fixed in the articles, except by unanimous consent, unless a different rule has been adopted in the articles.

The same newspaper publication must precede a premature dissolution as is required at its creation.

A failure to comply substantially with the requisition in relation to organization and publicity renders the individual property of the stockholders liable for the corporate debts.

PRIVILEGES. Corporations shall not exist for more than twenty years, except those for the construction of any work of internal improvement, or for the business of life insurance, which may exist for fifty years, but may be renewed from time to time.

Intentional fraud in failing to comply substantially with the articles of incorporation, or in depriving the public of individuals in relation to their means or their liabilities, shall subject those guilty thereof to fine and imprisonment, and damages may be recovered by any person who has sustained injury from such fraud.

A single individual may entitle himself to all the advantages of the law, provided he complies substantially with all its requirements, obviating those which from the nature of the case are inapplicable.

No body of men acting as a corporation shall be permitted to set up the want of a legal organization as a defense to an action against them as a corporation; nor shall any person sued on a contract made with such a corporation, or sued on an injury to its property, or a wrong done to its interest, be permitted to set up a want of such legal organization in his defense.

LEGISLATIVE CONTROL. The articles of incorporation, by-laws, rules and regulations of corporations shall at all times be subject to legislative control, and may be amended, altered, abridged or set aside by law, and every franchise obtained, used or enjoyed by such corporation may be regulated, withheld or be subject to conditions imposed upon the enjoyment thereof, whenever the general assembly shall deem necessary for the public good.

FOREIGN CORPORATIONS. It was enacted by chapter 70 of the acts of the twenty-first general assembly that "any corporation for pecuniary profit other than for carrying on the manufacture of manufacturing business, organized under the laws of any other state or of any territory of the United States, or of any foreign country, desiring to transact its business or to continue the transaction of its business in this state, shall be required to file with the secretary of state a certified copy of its articles of incorporation, fully attested and authorizing the service of process on any of its officers or agents in this state, and retaining thereon and subject to the provisions of the law, and prohibiting the removal of such copy to the home office, and in case of being deprived of the privilege of doing business in this state."

This statute was declared to be unconstitutional in the case of *Barton vs. Bunnell*, 124 U. S. 186.

MINES

There is no statute provided by which a mineral mining claim can be located, except that for the construction of a road, or erection of machinery or material furnished, which is covered by the mechanics lien laws, available to any and all laborers and material men who perform work upon or furnish material for construction or improvement of property.

MINING

INSPECTIONS. The state is divided into three mining districts, and there are three mine inspectors, one for each district, appointed by the governor, and holding their office for two years, then duties require them to examine the mines of their district, and see that the mining laws are complied with.

MAPS AND LINES. The agent or agent of every coal mine shall make, or cause to be made, an accurate map of such mine, and on or before the 1st day of September of each year report all progress in working said mine. When a mine is worked out, the agent or agent of the mine shall report a correct map of same to the inspector, to be filed in his office.

ON SETS OF ESCAPES. There shall be at least two separate outlets, separated by natural strata or not less than one hundred feet in width, by which shafts or outlets of every kind of mines and quarries are always available to the persons employed in the mine. In no case shall a tunnel shaft be used as an escape shaft, unless the tunnel shaft is large enough to be divided when a partition shall be placed to fully protect from heat and smoke. The distance from the main shaft shall not be less than three hundred feet, without the consent of the inspector, and no buildings shall be put near the escape shaft than one hundred feet, except the house necessary to cover the fan.

SAFETY LINES. The owner or agent of every coal mine, whether it be operated by shaft, slope or drift, shall provide and maintain for every such mine an amount of ventilation of not less than one hundred cubic feet of air per minute for each person employed in the mine, and not less than five hundred cubic feet of air per minute for each mile or horse employed in the same. When the inspector finds men working without sufficient air, or under any unsafe conditions, he shall give the agent or owner notice to rectify the same, and if not done, he may order the men out until the defect is remedied.

SAFETY APPLIANCES. The most approved methods of safety appliances are required to be used, subject to the approval of the inspectors. No untried or inexperienced craftsmen shall be employed in charge of the engines.

BOYS. No boy under twelve years of age shall be permitted to work in any mine.

A failure to comply with the law in regard to the appliances and other provisions of the law makes the same liable to be enjoined, and liable for all damages which may accrue by reason of the failure to comply with the provisions of the law.

Any miner, workman or other person who shall knowingly injure or interfere with any air-course or brattice, or obstruct or throw open doors, or obstruct any part of the machinery or do any act whereby the lives and health of the persons or the security of the mines and machinery is endangered, shall be deemed guilty of a misdemeanor.

PROGS.—The owner, agent or operator of any coal mine shall keep a sufficient supply of timber to be used as props, so that the shaft and main may at all times properly secure the workings.

PENALTIES.—Any person willfully neglecting or refusing to comply with the provisions of this act, when notified by the mine inspector to comply with such provisions, shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punished by a fine not exceeding \$300, or imprisonment in the county jail not exceeding six months.

SCALES.—The owner or agent of each coal mine within this state at which the miners are paid by weight shall provide at such mine suitable scales of standard make for the weighing of all coal mined.

WEIGHMASTER SWORN.—The owner or agent of such mine shall require the person authorized to weigh the coal to be sworn, and the oath posted in a conspicuous place.

CHECK-WEIGHMAN.—The miners employed and working in any mine may furnish a competent check-weighman, who shall at all proper times have access to the scales and examination of all scales, machinery or apparatus, and seeing all measures and weights of coal mined and accounts kept of the same.

FRANDS IN WEIGHING.—Fraud in weighing, committed by the company, check-weighman or any person, shall be punished by a fine not less than \$200 or more than \$500, or imprisonment.

WEIGHED BEFORE SCREENING.—All coal mined under contract for payment by the ton or other quantity shall be weighed before being screened, unless otherwise agreed upon in writing. Eighty pounds of coal as mined shall constitute a bushel, and two thousand pounds of coal as mined shall constitute a ton.

DAMAGES RECOVERED.—Any person damaged by reason of coal mined not having been weighed and credited to him in accordance with the provisions of this act may recover his damages in a civil action against the employer, but such action must be commenced within two years after the right of action accrued.

MINERS' WAGES.—It shall be unlawful for any person, firm, company or corporation to sell, give, or otherwise dispose of, directly or indirectly, to any person employed by him or it, in payment for wages due for labor, or as advances on the wages of labor not due, any scrip, check, draft, order or evidence of indebtedness, payable or redeemable other wise than in their face value in money.

COERCION.—Whoever compels or in any manner seeks to compel or coerce an employe of any person, firm, company or corporation to purchase goods or supplies from any particular person, firm, company or corporation shall be guilty of a misdemeanor, and punished by fine or imprisonment.

QUARRYING.

There are no statutes upon the subject of quarrying.

KANSAS

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CORPORATIONS.

CONSTITUTIONAL PROVISIONS.—Corporations may be created under general laws. Legislature can confer no corporate powers by special act.

DUES from corporations assessed by individual liability of stockholders to additional amount equal to stock held by each. This does not apply to railroad corporations, nor to religious nor charitable ones.

Religious corporations, title to all property of same vests in trustees, elected by members.

Term corporation includes all associations and joint-stock companies having powers and privileges not possessed by individuals in partnerships.

LEGISLATIVE EXPENSES.—Corporations are: First, public; second, private; third, for religion; fourth, for charity or benevolence; fifth, for profit.

PURPOSES FOR WHICH CORPORATIONS MAY BE ORGANIZED.—The conduct of any lawful business, and among others, mechanical, "the transaction of any manufacturing, mining, metallurgical, chemical or mercantile and agricultural implements and produce business, either separately or all combined."

MANNER OF ORGANIZING.—At least five persons, three of whom must be citizens and residents of the state, voluntarily associate themselves, and prepare a charter setting forth

1. The name of the corporation.
2. The purpose for which it is formed.
3. The place or places where its business is to be transacted.
4. The term for which it is to exist.
5. The number of its directors or trustees, and the names and residences of those who are appointed for the first year.
6. The amount of its capital stock, if any, and the number of shares into which it is divided. A charter is mailed to secretary of state, with two of said charter is filed, and original retained by secretary.
7. A corporation exists from filing and certified copy is evidence of creation of charter.

SUBSCRIBED AND ACKNOWLEDGED.—The charter of an intended corporation must be subscribed by five or more persons, at least three of whom must be citizens of the state and must be acknowledged by them before an officer authorized to take acknowledgments of deeds.

CORPORATE NAME.—The corporate name of every corporation (except banks and corporations not for pecuniary profit) must begin with the word "the" and end with the word "corporation," "company," "association" or "society," and such name must indicate the character of business to be carried on.

POWERS.—First, To have succession by its corporate name, for at least three of whom must be citizens of the state and must be acknowledged by them before an officer authorized to take acknowledgments of deeds. Second, To maintain and defend judicial proceedings. Third, To make and use a common seal, and alter the same at pleasure. Fourth, To hold, purchase, mortgage or otherwise convey such real and personal estate as may be required for the corporation, and also to take, hold and convey such other property, real, personal or mixed, as shall be requisite for such corporation to acquire, in order to obtain or secure the payment of any indebtedness or liability due to or belonging to the corporation. Fifth, To appoint and remove such subordinate officers and agents as the business of the corporation shall require, and to allow them a suitable compensation. Sixth, To make by-laws, not inconsistent with existing laws, for the management of its property, the regulation of its affairs, and for the transfer of its stock. Seventh, To enter into any obligation or contract essential to the transaction of its ordinary affairs. Eighth, To increase or diminish by a vote of its stockholders, or of its stockholders, the number of its directors, or of its officers, to be not less than three nor more than twenty-four, and may, in like manner, change its corporate name, without in any wise affecting its rights, privileges or liabilities.

ANNUAL STATEMENT.—President and secretary must make an annual report on oath, to be deposited with the secretary of state on January 1st of each year, showing condition of corporation preceding December 1st. As to, first, The amount of the capital stock of the company. Second, The property or assets of the corporation. Third, The debts of the corporation. Fourth, The receipts of the company during the preceding year. Fifth, The expenditures during the preceding year. Every corporation for profit, created under any law in this state, failing to make and deposit such statement shall be subject to a penalty of \$200, and an additional \$200 for every month that such company shall continue thereafter to transact business.

GENERAL OFFICE.—The general office must be kept within, and at least three directors must be citizens and residents of the state.

TREASURER.—Treasurer must keep his office and funds in the state.

DIVIDENDS PAYABLE.—Directors knowingly declaring and paying any dividend, when the corporation is insolvent, or rendering the corporation insolvent, jointly and severally liable for debts then existing or afterward contracted, to amount of dividend.

TERMINATION.—Corporations must begin business within five years from filing of charter, or are thereby dissolved.

LIABILITY OF STOCKHOLDERS.—For debts of corporation incurred by a contract on stock, and a sum in addition equal to amount of stock owned.

HYDRAULIC CORPORATIONS.—Hydraulic corporation or irrigating company may sell or lease any portion of its power, and may convey water in pipes, canals, etc., or other power by shafting, tunnel, or otherwise, and may use any kind of machinery and property. Blank charter forms may be secured from office of secretary of state on application.

LIENS.

Any article intrusted to mechanic, artisan or tradesman for alteration or repair is subject to lien, and it not paid in three months may be sold.

One on contract with owner, trustee, agent, husband or wife of owner of land, or contractor, any material to build, alter or repair structure or furnishing or performing labor, or for trees, sidewalks, etc., shall have lien upon the land and all appurtenances, to all liens subsequent to beginning of building, etc.

Original contracts have priority over liens of subcontractors and laborers, except in cases where material or labor furnished and work done, in which to file lien with clerk of district court, and one year after filing to begin suit for enforcement.

All rights assignable. If note be given for claim, such action lies within one year after maturity of note. If contractor fails to pay sub-contractor, or the latter or either the laborer, lien lies as above.

Attorney's fee allowed against defendant and property.

Lightning rods not considered in the preceding.

Public work, bond to state must be filed in contract price.

FOR RENT.—Owner of building or land has lien on goods or crops of lessee for rent, if without paying rent, at time or within thirty days after removal.

MINING.

SHAFT.—Equipment shaft must be two distinct means of ingress and egress, connected with each level worked, and each at least one hundred feet from main shaft through natural strata.

Must be constructed as main shaft is opened. Failing to provide, punished by fine and imprisonment.

EXPENSES.—Party charging file affidavit and gives bond for expense of survey, whereupon court orders county surveyor to make survey and report, upon which injunction may issue.

City may contract for mining under streets, alleys and public grounds.

MAINS.—Company must keep ready for inspection a correct plan of all workings.

OPENINGS.—In shaft or slope, employees are not allowed to work at depth to exceed one hundred feet, unless, in connection with at least two openings separated by natural strata not less than eighty feet thick. Speaking tubes, from top to bottom, cord and bell signals, improved safety cable, drum horns, bridle chains, and all precautions, must be kept in every thirty feet.

BOILER.—Boiler used about mine must have all safety appliances, and be officially inspected every six months.

VENTILATION.—A vein three feet thick or over, one hundred cubic feet of air per person per minute must be furnished in workings. Proportionate amount for thinner strata. Kept free of gas, examined and marked each morning before work begins. All roads must be securely stopp'd and all traveling ways provided with signals, and left undisturbed every thirty feet.

EXPLOSIVES.—Miner must not take more than five pounds of powder into mine at one time, which must all be used before mine is taken.

SUPERVISOR.—A state mine inspector appointed by the governor has general supervision of all mines, safety appliances, ventilation, reports, etc.

LIABILITY.—Injury to persons or property by violation of act renders operator liable to person injured, or heirs.

MISCELLANEOUS.—Mines under twelve years of age not employed, not between twelve and sixteen unless can read and write, and has attended school three months in same year.

SHOT FIRERS.—Shot firers must discharge all blasts where explosives are used, and that only once a day when all others are out of mine.

MISCELLANEOUS.—To fire blasts until coal is "mined" two feet, or full depth of drift, to fail to furnish shot firers, to take down more than five pounds of powder.

KENTUCKY.

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CORPORATIONS.

Corporations are formed by filing in the county clerk's office articles of incorporation stated and acknowledged by two or more copartners as deeds are required to be. Such articles confer upon the corporation the usual corporate powers, including that of exempting the private property of the stockholders from corporate debt.

Within three months from the filing of the articles the corporation must publish for four consecutive weeks, in some newspaper as convenient as practicable to the principal place of business, a notice specifying:

1. The nature of the corporation, the name of the corporation and its principal place of transacting business;
2. The general nature of the business purpose to be transacted;
3. The amount of capital stock authorized, and the times when and the conditions upon which it is to be paid;
4. The time of the commencement and termination of the corporation;
5. By what officers or persons the affairs of the corporation are to be conducted, and the times at which they are to be elected;
6. The highest amount of indebtedness or liability to which the corporation is at any time to subject itself;
7. Whether private property is to be exempt from the corporate debts.

LIENS.

Material men are given a lien, dating from the commencement of the work, upon the improvement, and the interest of the employer in the land, for all materials furnished for the erection, improvement or repair of any building or structure of any nature thereon. Sub-contractors acquire a lien upon the amount due the contractor by the employer, and such lien is removed after sale and that they look to the land and improvements for their compensation. If the materials are furnished to a tenant and he does not pay, and the lessor after taking possession refuses to pay, the building or improvement may be removed after sale under the suit to enforce the lien, if such removal will not injure previous improvements. The claim for the lien must be filed in the county clerk's office within sixty days after the material is furnished, and it must state the name of the person to whom the material was furnished, the amount due, a description of the property on which a lien is claimed, and a bill of the items furnished, with prices. The lien is enforced by suit in equity commenced by anyone claiming a lien without notice to the completion of the work. If one lien claimant commences such suit, all others may file and prove their liens without formal pleadings.

There is no statute giving to laborers in mines a lien for their wages.

MINING.

An inspector of coal mines is appointed by the governor with the advice and consent of the senate. He receives a salary from the state of \$2,800 per annum and his traveling expenses, and his duty is to visit each coal mine in actual operation as often as may be necessary and examine its condition with respect to ventilation, drainage, safety appliances, and other matters of safety, and if he finds the same defective in any respect to notify

the superintendent or owner and require him to remedy the defect. For a failure to comply with the inspector's requirements within sixty days from receipt of said notice a fine of \$20 per day is provided.

The inspector is required to keep an office in the state house at Frankfort and to keep a record of all his inspections. He is also required to furnish upon application a certified copy of his report of inspection to the commonwealth's attorney of the district in which the mine inspected is situated, when copy is made prima facie evidence in any court of the state.

REPORTS.—The inspector is required to make a report to the governor annually on or before the 10th day of October, showing the number of persons employed, amount of coal mined, the amount of accidents, and other facts, together with such other information concerning the condition and operation of the mine as he may deem useful, making such suggestions as to further legislation as he may deem proper. To enable him to make such reports, owners and operators of mines are required to give information on blanks to be furnished by the inspector, under a penalty of \$50 fine.

MAPS.—The owner or superintendent of each mine is required to furnish the inspector an accurate map of the mine on a scale of one inch to one hundred feet, showing the location of the mine, and the location and connection of such excavation with the lines of all adjoining lands, and with the names of the owners of such lands marked on each tract.

Within six months after the map is furnished the owner shall furnish the inspector a statement and plan of the progress of the workings of the mine up to date, so prepared as to enable the inspector to mark the same on the original map. In the event of failure to furnish the same, the inspector may cause them to be made at the owner's expense, and the owner is subject to a fine of \$2 per day for each day's delinquency.

OUTLETS.—Mines wherein over fifteen thousand square yards have been excavated shall not be worked unless there are at least every seven or eight hundred feet one separate and distinct outlet by natural strata of not less than one hundred feet in breadth by which outlets distinct means of ingress and egress are always available to persons employed in such mine. All other mines, whether the slopes of drifts or shafts have less than two such outlets after fifteen thousand square yards have been excavated. If such outlets have not been provided not more than ten persons shall work in the mines at once. In case a mine has but one shaft, slope or drift, and the owner of such mine is unable to furnish another, he is given power to condemn sufficient land for that purpose. At every mine operated by a shaft there shall be a safety catch and an overhead cover on all cages used for carrying persons or material, and such safety catches and covers shall be provided. An adequate brake shall also be attached to every draw or machine used for raising or lowering persons.

VENTILATION.—The owner, agent or lessee of every coal mine, whether a shaft or drift, is required to provide and maintain for every mine an amount of ventilation not less than one hundred cubic feet per minute per person employed, which shall be circulated to the face of each working place in the mine in such manner as to dilute, render harmless and expel the poisonous gases, and to keep the air cool and free from dust. In every coal mine, and in every working place shall be driven more than sixty feet in advance of a break through of air way, and all break throughs or air ways except those made near working face of the mine shall be closed and made air tight by means of a trap door or otherwise. All mines are required to be provided with artificial means of producing ventilation, such as suction or forced fans, exhaust steam furnaces or other contrivances for that purpose. All mines, containing fire-damp shall be kept free from standing gas, and every working place shall be carefully examined every morning with a safety lamp by a competent person before any of the workmen are allowed to enter the mine.

WORKING.—The majority of the miners in any coal mine employing as many as twenty men may, at their own expense and with the approval of the judge of the county court, appoint a person to inspect the scales and see that the coal mined is properly weighed and accounted for. Such person shall at all times have free access to the scales and shall not be liable for any delay in the performance of his duty under a penalty of a fine of not less than \$10 nor more than \$50.

RIGHTS OF WAY.—Any person owning any large coal bank or mine, or part of one, situated on or adjacent to any navigable stream or railroad in this state has the right to condemn a right of way to the most convenient point on such stream or railroad, and upon such right of way to cut coal, if it deems the clearing of such right of way to be of importance, allow a railroad to be constructed and operated.

FINES.—LAW. Any person selling uninspected coal for screened coal shall be subject to a fine of not less than \$5 nor more than \$20.

Any person employed in a mine who intentionally and wilfully neglects or refuses to securely prop the roof of any working place under his control, or neglects or refuses to obey any order or command of the superintendent or other person in authority of that part of the bank where he is at work, and whoever willfully does any act endangering the lives or health of persons employed in a mine or the security of the mine or machinery, shall be fined from \$20 to \$50.

WILDLANDS.

Any person owning land on a water-course, and desiring to erect a crib-shed or other mill useful to the public, and desiring a dam in or across the water-course, may, by petition in writing filed in the county court of the county in which the larger portion of the land is situated, obtain therefrom a writ for the purpose of obtaining a decree whereby such dam and crib-shed may be erected on the land demanded, whether lying in the same or other counties.

Ten days' notice must be given to every person whose rights could be affected by the condemnation. The writ shall be directed to the sheriff of the county, who will at once impanel a jury of twelve men, who shall decide as to the height of the dam and the amount of land condemned which is not to be used by the applicant and which is covered by the bed of the stream. When the applicant shall have paid to the several parties the amount of the damages as ascertained by the court, he shall have a writ of possession and otherwise proceed according to such leave.

WAGES.

It is provided by Section 244 of the constitution of Kentucky, adopted September 28, 1892, as amended, that all wage-earners in this state employed in factories, mines, workshops or by corporations shall be paid for their labor in lawful money. The general assembly shall prescribe adequate penalties for violating this section. By an act passed at the present session of the general assembly, and which takes effect after the end of the session, a penalty of \$500 is imposed for any violation of the above section.

LOUISIANA

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CORPORATIONS.

Corporations must be formed under the general incorporation laws of the state, not by act of legislature.

Any number of persons, exceeding six, may organize themselves for literary, scientific, religious or charitable purposes. The act may be by public or private act, and it shall state the objects, name, style and title thereof, place of domicile, manner of choosing its officers, name of officer on whom citation may be served and length of time for which it is incorporated. The act must be approved by the district attorney and recorded.

Corporations for works of public improvement and home-stead and building companies and for other purposes, except mercantile or commission business, brokerage, stock jobbing, exchange or banking business. Any number of persons, not less than six, may form themselves into a corporate body for the above purposes. Every charter shall contain:

1. The name and title of the corporation and the place chosen for its domicile.
2. A description of the purposes for which it was organized, the nature of the business to be carried on and the designation of the officer on whom citation may be served.
3. The amount of the capital, the number of shares, the amount of each share and the time when and the manner in which payment on stock subscribed shall be made.
4. The mode in which the election of directors or managers shall be conducted.

The mode of liquidation at the termination of the charter. Publication of charter to be made once a week for thirty days at domicile, charter must be recorded in office of recorder of mortgages; charter amended or dissolved by a vote of three-fourths of the stockholders.

Telegraph and telephone companies shall have the right of way for their lines along any railroad line, along any parish line or public road or river of the state.

Railroad, plankroad or telegraph corporations may appropriate land for their uses, jury to fix value, appeal not to suspend execution.

LIMITED CORPORATIONS, for the purpose of carrying on mercantile business and all other business not heretofore enumerated, except banking, to be composed of not less than three persons, are authorized to be established by Act No. 36 of year 1888 of the state legislature. The form of corporation act is to be the same as that required for corporation for public use previously above set forth.

CORPORATIONS for mining, mechanical or manufacturing business, except that of distilling or manufacturing intoxicating liquors, may be formed by any number of persons, not less than three, on compliance with the laws of the state governing corporations in general. Authorized by Act No. 111, July 5, 1882.

BANKING CORPORATIONS. Free banking act passed in the year 1875, capital stock to be not less than \$100,000, number of persons to be not more than five, not to exceed twenty years' powers, such as are customary for banks, their right to hold real estate limited to five years. Articles of incorporation to contain same provisions as above set forth. All stock subscribed must be paid up in full within twelve months. No loans shall be made to any stockholder on pledge of its own stock. Monthly publication of statements shall be made by banks not operating under free banking act, and at other quarterly statements only required. (Act of 1882.)

SAVINGS, SINK DEPOSIT AND TRUST BANKS. Authorized by Act No. 126 of Year 1888, also by amendment may act as trustees.

LICENSE TAX. A graded license tax is levied, according to the amount of business. Stock of all corporations is taxed without deducting value of United States bonds and other exempt securities.

Watered, or stock issued as full paid, but not in fact paid up, is forbidden to be issued by the state constitution of 1875. State licenses are required of all insurance corporations doing business in the state, whether foreign or local. The license is graded upon the amount of premiums taken in, the highest being \$1,500 per annum and the lowest \$300 per annum. Provided by act of 1890.

A license is required of other corporations doing business in this state through an agent, in proportion to the amount of business done. Foreign corporations doing business here are required to appoint an agent here, on whom citation can be served in case of suit.

LIENS.

LABORER'S LIEN. Employees have a lien on all manufactured materials thirty days after the maturity of the debt due them for wages; but this lien does not affect such materials in the hands of good-faith purchasers.

LIEN FOR MATERIALS.—Those persons who supply the owner or employer by hand his goods or services, or contractor, with materials, which are intended for and are used in the erection or repair of any edifice or other work, have a lien or privilege on the building or work erected, and not exceeding one acre of land on which building or work erected is erected. If the proprietor of the land on which building or work erected is the tenant, the privilege attaches only to the leasehold. To perfect the lien the seller must record in the office of the recorder of mortgages of the parish where the property is situated the act containing the bargain made and debited itemized under each of the amount due, or the acknowledgment by the debtor of the amount due. The lien is good as to third parties from the date of recording. There is no priority between lien-holders. The sub-contractor may deliver to the owner an attested account of the amount and value of the materials furnished, and the owner must retain such amounts from subsequent payments due contractor. On receipt of such an account, the owner must furnish a copy to the contractor. If the contractor does not notify the owner within ten days that he intends to dispute the claim, the owner may pay the sub-contractor and deduct from amount owing contractor. If the sub-contractor and contractor cannot agree as to the amount the dispute may be adjusted by three arbitrators. The arbitrators for five years from date of recording. It is enforced by a suit in court. There is also a lien given on vessels for materials furnished, but it only continues for six months from the time of furnishing the materials.

MINING.

There are no special laws in the state relating to mining.

MAINE

Compiled by CLEMENT R. DONNORTH, Attorney at Law, Donworth Block, Main Street, Machias, Me.

CORPORATIONS.

ORGANIZATION UNDER GENERAL LAW. Three or more persons may associate themselves together by written articles of incorporation, for the purpose of forming a corporation for mining and quarrying purposes. Their first meeting shall be called by one or more of the signers of said articles, by giving notice thereof, stating the time, place and purpose of the meeting, to each signer in writing, or by publishing it in some newspaper printed in the county where such signers reside, at least fourteen days prior to the time appointed therefor. At such meeting they may organize into a corporation, adopt a corporate name, define the purposes of the corporation, fix the amount of the capital stock, which shall not be less than \$1,000 or more than \$100,000; divide it into shares, and elect a president, not less than three directors, a clerk, treasurer, and any other necessary officers, and may adopt a code of by-laws. Before commencing business, the president, treasurer and majority of the directors shall prepare, sign and make oath to a certificate setting forth the name and purpose of the corporation, the amount of capital stock, the amount already paid in, the par value of the shares, the names and residences of the owners of the shares of the county where it is located, and the number and names of the directors, and after it has been examined by the attorney-general and by him been certified to be properly drawn and signed and to be conformable to the constitution and laws, if he publishes it in some newspaper printed in the county where the business is to be done, in a book kept for that purpose, and a copy thereof, certified by such register, shall be filed in the office of the secretary of state, who shall minute the date of filing thereof, and shall record said copy in a book kept for that purpose. The corporation is created upon the filing of such certificate in the office of the secretary of state, and then becomes clothed with all the rights and powers and is subject to be kept in the duties and liabilities, as if chartered by special act.

CHARTER BY SPECIAL ACT.—Such corporation may be chartered by special act of the legislature. Before commencing business, it so chartered, the president, treasurer and a majority of the directors shall prepare, sign and make oath to a certificate as in cases of corporations organized under general law and stating therein the date of approval of the charter, such certificate to be recorded in the registry of deeds in the county where the principal office of the corporation is to be located, and a certified copy thereof filed in the office of the secretary of state. The existence of the corporation is established by such filing in the secretary of state's office, and it has all the powers and is subject to all the liabilities before mentioned as pertaining to corporations created under general law.

LOCATION OF OFFICE. The clerk of the corporation shall be a resident of the state, and the office of such corporation shall be at some fixed place within the state, where a true and correct copy of the charter, the corporation and a book, showing a true and complete list of all stockholders, their residences and the amount of

stock held by each. Such records and book shall be open at all reasonable hours to the inspection of persons interested, but this provision as to list of stockholders does not apply to any corporation doing business in the state and having a treasurer's office at some fixed place within the state where a stockbook is kept giving the names, residences and amount of stock of each stockholder. The clerk or other officer of the corporation shall, within twenty days after the election of a clerk, or change of location of the clerk's office, file in the office of the registry of deeds in the county where the corporation is established or has its principal office or place of business a certificate giving the full name and residence of the clerk and the location of the clerk's office.

OFFICERS, THEIR QUALIFICATIONS AND TENURE. The officers shall consist of a president, clerk, treasurer and board of not less than three directors, one of whom shall be said board elected president of the corporation. The officers shall be chosen annually and shall continue in office until others are chosen and qualified in their stead. The directors must be stockholders. The clerk shall be sworn and shall keep a record of all votes of the corporation. The treasurer shall give bond for the faithful discharge of his duties.

TAXATION. Mines of gold, silver, or of the baser metals, when opened and in process of development, are exempt from taxation for ten years from the time of such opening. The buildings, lands and other property of mining and smelting corporations, made personal by their charters and not exempt from taxation, are taxable to the corporations, and the shares of the capital stock shall not be taxed to the owner thereof.

LIABILITY OF STOCKHOLDERS. No stockholder whose stock has been fully paid in, and no part of the principal has been withdrawn, is liable for corporate debts, but when corporate property cannot be found with which to satisfy such debts, each stockholder's stock and interest in stock may be seized and sold on execution, and he may recover of the corporation the value of the stock and interest so taken.

LIENS.

Whoever digs, hauls or furnishes rock for manufacture of lime, and whoever labors in any quarry in quarrying, cutting or dressing granite, or in mining, quarrying or manufacturing slate, has a lien for his wages on such lime or rock for thirty days after the rock is manufactured into lime, or until such lime is sold or shipped on board vessel, and on the granite so quarried, cut or dressed for thirty days after such granite is cut or dressed or until it is sold or shipped on board vessel, and on all slate so mined, quarried or manufactured for thirty days after such slate arrives at the port of shipment, and such liens have precedence of all other claims. No statute liens on ores and metals.

MARYLAND

Compiled by ELLIOTT & HOLTMAN, Attorneys at Law.

Daily Record Building, Baltimore, Md.

CORPORATIONS.

Corporations may be formed by five or more persons, citizens of the United States, and a majority of them citizens of the state of Maryland.

Articles of incorporation must state:

1. Names in full and places of residence of the applicants.
2. Name of the corporation, which must include name of the city or county in which it is to be formed.
3. Object or purposes for which formed.
4. Place of places where the operations of the corporation are to be conducted, and where principal office of the corporation in this state will be located.
5. Term for which it is to exist not exceeding forty years.
6. Amount of capital stock of any of the corporation.
7. The number of shares of stock and amount of each share.
8. The number of directors or managers, and their names, who shall manage the concerns of the corporation for the first year.

This certificate must be certified to be in proper form by one of the judges of the county or city in which the principal office of the corporation is to be located, and must then be recorded in the clerk's office of the circuit court of the county, or the superior court, if in Baltimore City.

Each stockholder remains severally and individually liable to the creditors of the corporation to the extent of his unpaid subscription to its stock, and no further.

The state imposes an incorporation tax of one-eighth of one per cent. on the capital stock of new corporations, excepting cemetery, religious, charitable and railroad corporations.

There are provisions under which it is made necessary for the president or other officers of a corporation located or doing business in this state, domestic or foreign, to make full reports showing the stock or gross receipts of the company, according to its nature, as also the names of persons by whom the stock is held, to the comptroller of the state, upon which report the tax commissioner determines or assesses the taxes to be paid upon said stock or income. A neglect or failure to make such report is punishable by fine or imprisonment. The liability for taxes is determined in each case by the tax commissioner, subject to an

appeal, within thirty days, to the comptroller and treasurer, who must both agree in order to any alteration of the tax commissioner's determination.

Foreign corporations, except insurance companies, do business and hold property without restriction.

MINING AND QUARRYING CORPORATIONS.

Any five or more persons, citizens of the United States, and a majority of them citizens of this state, may form a corporation for conducting any kind of mining business in this state, and for selling or otherwise disposing of the products of said business, when the principal office of said corporation is located in this state; (2) for washing, dressing, smelting and otherwise preparing for and bringing to market and selling the ores of all kinds of metals, and for the mining and working of quarries of marble, slate or other economic minerals or mineral substances in this state, and for the manufacturing, transportation or exportation and sale thereof; (4) for boring for, opening, using or refining petroleum, salt or other mineral springs in this state, and for boring for, opening, using or refining other oils, where the principal office of said corporation is located in this state.

No such corporation shall hold more than one thousand acres of land at any one time; if said corporation is situated in Allegheny county, not more than five hundred acres; if in any other county, not shall its capital stock exceed \$300,000; and the presence, in person or by proxy, of a majority in interest of the stockholders shall constitute a quorum for business at any meeting of stockholders or members.

The president and directors of any such corporation shall be invested with full power to locate and construct a railroad or railroads, with necessary appurtenances, beginning the same at or near the mines, quarries or works of said corporation. It shall not be lawful to occupy any portion of lands that may be necessary for accommodation of the works of the Chesapeake & Ohio Canal Co., or the main route of the B. & O. R. R., or the works of any other railroad company chartered by this state, except to cross said road without injury to same. No railroad built by any mining or other corporation as provided shall be more than ten miles in length. It shall be furnished with all necessary means for transportation of all persons and property that may be offered for transportation thereon, and in all cases in which said corporation furnishes cars and motive power, and is subject to all expenses of transportation, it shall be authorized to charge fares, not exceeding five cents per ton per mile on all coal or other articles, and two cents per mile for every passenger that may be transported on said road.

Questions of difference that may arise between any two corporations incorporated under Article 23, or between any corporation and a citizen, in regard to locating, constructing or working its railroad or railroads, or in respect to the charge of transportation thereon, may be submitted to and decided by the board of public works, and the decision of said board shall be final in all cases submitted to them.

LIENS.

All buildings erected, repaired, rebuilt or improved, to the extent of one-fourth of their value, all machines, or wharves or bridges erected or constructed in this state, and all boats or other vessels built, equipped or repaired, are subject to the liens of the mechanics or other persons who have done the work or furnished the materials. To secure the lien and lay a foundation for enforcing it, the mechanic or material man must, within six months after the work has been done, file a claim in the superior court for the city of Baltimore, or in the circuit court for some county. The claim is to be recorded in a book kept for that purpose. These claims may be enforced by some factor or by bill in equity. No writ of fieri facias must issue within ten days of the return day in the city of Baltimore, nor within thirty days in a county. The lien shall expire at the end of five years from the day on which it was filed, unless renewed by some factor. In the case of a boat or vessel, the claim must be filed within six months from the commencement of the work, and the lien continues for two years only.

MASSACHUSETTS

Compiled by H. L. BAKER, Attorney at Law, John Hancock Building, Boston, Mass.

CORPORATIONS.

FORMATION OF. Three or more persons may associate together by an agreement in writing for the purpose of forming a mining corporation, with a capital of not less than \$5,000 or more than \$100,000.

AGREEMENT, NAME AND ORGANIZATION. Such agreement shall contain:

1. The name assumed.
2. The purposes for which it is formed.
3. The town in which it is located in this Commonwealth.
4. The amount of its capital stock and the par value thereof, and the number of shares.

The first meeting shall be called by a written notice given to all subscribers, for the purpose of temporary organization, and each subscriber shall take an equal number of shares of the capital stock unless otherwise agreed. The president, treasurer and a majority of the directors shall sign and attach a certificate setting forth a copy of the agreement, with the names of all the subscribers, thereto, date of first meeting and adjournments thereof, and shall submit such certificate, together with the records of the association, to the clerk of the corporation, who shall thereupon issue a certificate of incorporation, which shall have the effect of a special charter.

OFFICERS AND BY-LAWS. The business shall be conducted by a president, board of directors, clerk, treasurer and other officers; but no mortgage of real estate or lease for more than one year shall be given except by vote of the stockholders.

The board of directors shall consist of at least three members, one of whom shall be chosen president. The clerk shall be sworn to the faithful performance of his duties, and the treasurer shall give bond in such manner as provided in by-laws. Stockholders may vote by proxy authorized by a writing.

CAPITAL STOCK. Stock may be transferred by a written instrument recorded in the clerk's book. The amount of the capital stock may be increased or diminished by vote of the stockholders, subject to the provisions of this chapter (157). Assessments may be made upon the shares not exceeding the par value thereof, and shares of members not paying assessments may be sold. The corporation shall not commence business until the whole amount of its capital stock has been paid in, and a certificate of such fact made and recorded; but conveyances of real or personal property will constitute such paying in.

BUSINESS OF CORPORATION. Any corporation thus created may purchase and hold real estate and personal property necessary to its business and may sue and be sued, and may hold real estate, but shall not direct its operations to other purposes than those mentioned in its agreement of association, but its business may be altered, added to or changed by the stockholders at a special meeting called for that purpose.

CERTIFICATES AND RETURNS. An annual certificate must be filed setting forth the time of last annual meeting, amount of capital stock, such fact and the time of payment of the assets and liabilities of the corporation; and upon failure so to do for two successive years, the commissioner of corporations may apply to the supreme court for its dissolution. Certificates must also be filed upon an increase or reduction of the capital stock.

LIABILITY OF OFFICERS AND STOCKHOLDERS. The president and directors shall be liable for the payment of any dividend by which the corporation is rendered insolvent, to the extent of such dividend; between the time of making loan to stockholder and time of its repayment, to amount of such loan, for signing false certificate of statement, required by law, only the persons signing being liable.

Stockholders shall be liable for debts contracted before the capital stock was all paid in, but only those who have not paid the par value of their shares shall be so liable; for debts existing at the time the capital stock was reduced, to the extent of such reduction, for debts existing at the time of such reduction, until the same is redeemed; for sums due operatives for services rendered within six months before demand made upon the corporation; but in all cases stockholders shall only be liable to par value of shares held by them. All wages due employees shall be paid weekly.

Roads, drains, ditches, tunnels and railways may be established through lands of adjacent owners or over highways, upon petition to the county commissioners, provided the proceedings be instituted and assessment of damages for injuries to such owners.

The above provisions apply also to quarrying companies, in which case the capital stock shall not exceed \$50,000.

Provision is made for returns of foreign corporations having offices in this commonwealth. (Statutes 1882, Chap. 106; Statutes 1886, Chap. 236.)

Corporations owning mines or quarries outside of this commonwealth, or incorporated under the laws of any other state and doing an office or place of business within this commonwealth, shall pay a tax of one-twentieth of one per cent, upon the par value of the capital stock.

LIESENS.

Any person to whom a debt is due for materials furnished and actually used in the erection, alteration or repair of a building or structure upon real estate, by virtue of an agreement with or the consent of the owner of the real estate, shall have a lien on such building and the interest of the owner in the land upon which such building is situated. But no lien shall attach if these be purchased by a person other than the owner, unless a written notice be previously given of the intent to claim such lien. The owner of such building, if he be a person other than the owner of the land in whose behalf a contract has been made, may prevent the attachment of a lien for materials not then furnished, by a notice in writing given to the person furnishing such materials. The lien shall not be lost by neglect or non-payment of the debt, but it shall be a just and true account of the amount due, a description of the property and the name of the owner must be filed in the registry of deeds within thirty days after ceasing to furnish materials; and such must be the amount of the debt as shown by the account.

The lien may be enforced by petition to the superior court, or to a lower court when the claim does not exceed \$500, and proper proceedings had thereupon, the owner being duly summoned, and the debtor and all creditors having been upon the date being duly notified of such petition. Upon the establishment of a lien

a sale of the property will be ordered by the court. Any interest in property so sold may be redeemed within one year. Creditors entitled to a lien shall share the proceeds of such sale in proportion to their respective debts, but creditors having a lien by reason of attachment shall be preferred. All rights to and liabilities for a lien under the provisions of this chapter (162) survive. Any person entitled to a lien may pursue his common-law remedies also.

MILLDAMS.

Milldams may be erected across non-navigable streams subject to conditions. No such dam shall be erected to the injury of any dam already existing. The height of water and the length of time the water may be kept up shall be regulated by the court on a jury. All persons injured by flowage or otherwise may obtain compensation therefor upon petition to the superior court, and proceedings thereupon, the remedy so given taking the place of any common-law remedy. No milldam shall be constructed or materially altered until specifications of the proposed work have been approved by the county commissioners.

MICHIGAN.

Compiled by R. C. FLANNIGAN, Attorney at Law, Norwalk, Mich.

CORPORATIONS.

MINING, SMELTING AND METAL MANUFACTURING COMPANIES. Any number of persons, not less than three, by articles in writing may organize themselves into a corporation for the purpose of engaging in and carrying on any kind of mining business, or for refining, smelting or manufacturing any or all kinds of ores, minerals or metals, or for both mining, refining, smelting and manufacturing any or all such ores, minerals or metals. The articles of association shall be acknowledged in duplicate by not less than three of the subscribers, and shall state the purpose for which the corporation is formed; the amount of the capital stock, which shall not be less than \$10,000 nor more than \$25,000; the number of shares of \$25 each; the amount of cash actually paid in; the cash value of any property, real or personal, conveyed to the corporation contemporaneously with its organization; the names of the stockholders, their respective places of residence and the number of shares held by each; the location of the business office, and, if located without the limits of the state, as it may be, the location within the state of its office for the transaction of business; the county or counties in the state where the business of the corporation is to be carried on; the number not less than three nor more than nine constituting the board of directors; the directors one of whom shall be a resident of Michigan for the first year and the term of existence of the corporation, which shall not be less than three years. Upon filing the articles with the county clerk of the county where the business office or the office for the transaction of business is located, and with the secretary of state, and on paying the franchise tax, the corporation may lawfully commence business. The original corporations are not obliged to subscribe for the entire capital stock, and the portion not subscribed for may be disposed of at any time afterward by the corporation. The stock is treated as personal property, transferable only on the books of the company, and the corporation at all times has a lien thereon for all debts due from members. The directors may call in stock subscriptions by installments and may sell the stock on thirty days' notice for assessments paid due sixty days. The corporation may acquire and hold any quantity of land not exceeding fifty thousand acres; may subscribe for or purchase stock in any corporation formed to construct or improve any canal, harbor, plank road or railroad, or to create, generate or manufacture any kind of power or light, when the construction, improvement, plant or light is designed to facilitate the operations of the company; may construct and operate boats or vessels for the transportation of its product or of general freights, and may charter such boats or vessels to others; may conduct its mining, manufacturing or other trade or business in any part of the world, including the United States, its territories, or in any foreign country, and, when conducting its business wholly at a place outside the state, may subscribe for or purchase stock in any other corporation formed for the purpose of mining, manufacturing or smelting ores or minerals wholly at a place outside the state, may increase or diminish its capital stock within the limits above indicated, by a vote of two-thirds of the capital stock, may consolidate with any other corporation or corporations, may issue a vote of three-fifths of the stock of each corporation, may mortgage or sell the mine, works, real estate or franchise if authorized by a vote of three-fifths of the stock, but may convey city or village lots or land not required for mining purposes from which the timber has been removed, or rights of way and depot grounds for railroads, if authorized by a vote of a majority of the directors; may hold meetings of stockholders or directors at the business office, wherever located, and shall annually, in the month of March, make and publish a statement to the county clerk of the county in this state where the mine or works are situated, and with the auditor-general, a report for the preceding year ending December 31st, showing the total cash paid in on stock, the total cash paid in on bonds or other securities of property to the corporation; the amount invested in real and personal estate; the names of the stockholders, their places of residence respectively, and the number of shares held by each, the total floating and bonded indebtedness of the company and its output. It is made the duty of the president and secretary to

corporations not engaged in the business of smelting or reducing ores and foreign corporations doing business in the state under the manufacturing company act are required to file a report similar to the report of the domestic corporation and under like penalties.

TAXATION. The law imposing a specific tax for state purposes on corporations engaged in the business of mining, smelting, refining or manufacturing ores and minerals is fully enforced, and the property, real and personal, of the corporation, whether foreign or domestic, is taxed for state and other purposes under the general provisions of law relating to the assessment and collection of taxes. The capital stock is such is not taxed.

CORPORATIONS OTHER THAN FOR MINING OR MANUFACTURING. In the Michigan statute will be found special acts for the organization of state banks, railroads, canal companies, lumber depot companies, tram railway companies, street-railway companies, plank-road companies, stage companies, bridge companies, ferry companies, telegraph companies, express companies, pipe-line companies, water-supply companies, marine and commerce or navigation companies, warehouse companies, land companies, canal, harbor and river improvement companies, river navigation improvement companies, water-power companies, rafting companies, rafting, running and loading companies, wharf associations, cooperative associations, trades-union associations, building and leasing companies, electric-light companies, printing and publishing companies, newspaper and book publishing associations, insurance companies, and for the incorporation of various religious and benevolent societies.

LIENS.

MICHIGAN'S LIENS.—Every person who shall, in pursuance of any contract between himself and the owner, part owner or lessee of any interest in real estate, build, alter, improve, repair, erect, ornament or put in or who shall furnish any labor or material in or for building, altering, improving, repairing, erecting, ornamenting or putting in any house, building, machinery, wharf or structure, and every person who shall, as sub-contractor, laborer or material-man, perform any labor or furnish materials to the original or principal contractor or to any sub-contractor in carrying out, stating or completing any such contract, is given a lien thereon upon the structure and its appurtenances and also upon the entire interest of the owner, part owner or lessee in and to the lot or piece of land, not exceeding one-quarter section of land, or, if an incorporated city or village, not exceeding one lot or lots upon which the improvement is made, to the extent of the right, title and interest therein of the owner, part owner or lessee at the time work was commenced or materials were begun to be furnished under the original contract or the sub-contract, or who furnishes or who furnishes or who furnishes materials in the performance or execution of such sub-contract, and also to the extent of any subsequent acquired interest of any such owner, part owner or lessee. The person, firm or corporation furnishing material is required within ten days after the sale to serve on the owner, part owner or lessee, or on his agent, if such owner, part owner or lessee resides in or has a known agent in the county in charge of the structure, a fairly detailed statement of the goods and materials furnished, and the labor performed, and to the sub-contractors, material-men or laborers for any greater amount than he contracted to pay the original contractor, and is entitled to recoup any damages which he may sustain by reason of any failure or omission in the performance of the contract, and the risk of all payments made to the original contractor when the claimant for labor performed or materials furnished shall have, before or at the time of the commencement of the performance of such labor or the furnishing of such materials, filed with the register of deeds of the county in which the land is situated, a written notice that the lien will be claimed for the labor or materials, giving a description of the premises and the name of the owner, part owner or lessee and contractor, and within the same time shall have served a copy of the same on the owner, part owner or lessee, and the lien shall be upon the owner, part owner or lessee until the expiration of sixty days from the date on which the last of the materials shall have been furnished or the last of the labor shall have been performed, and no lien shall be claimed or enforced or made before the expiration of this sixty day period shall defeat any lien of any sub-contractor, material-man or laborer unless such payment has been distributed among the sub-contractors, material-men and laborers, or if distributed in part only, then to the extent of such distribution. If labor is performed or materials are furnished upon lands belonging to a married woman with her knowledge and consent, and in pursuance of a contract with the husband, the lien attaches upon the property the same in all respects as if such contract had been made with the wife, and the title to the lands is held by a husband and wife jointly the lien attaches to the lands and improvements, if the improvements be made in pursuance of a contract with both of them or in pursuance of a contract with one of them, in case with the knowledge and consent of the other. If labor or material is furnished for the erection of a new building or structure upon lands to which the person contracting for such erection has no legal title, the lien for the labor and material attached to the land, and the person, firm or corporation who surrenders any title or claim of title held by such contracting person to the land will not defeat the lien. If the property covered by the lien is held by the contracting person under a land contract and he surrenders or forfeits his rights thereunder, the person holding such lien, by performing the covenants contained in such contract within thirty days after such forfeiture or surrender, may be subrogated to the rights of the contracting person as his rights existed immediately before the surrender or forfeiture. The owner may retain from any money

due or to become due to the original contractor an amount sufficient to pay the demands of the sub-contractor, material-men or laborers who have filed and served notice of their intention to claim a lien. The original contractor, whenever any payment shall become due or whenever he desires to draw money from the owner, is obliged to deliver to the owner a statement under oath of the number and names of every sub-contractor or laborer in his employ, and of every person furnishing materials, giving the amount, if anything, which is due or to become due to them, and the owner may retain out of any money then due or to become due to the contractor, an amount sufficient to pay all such demands whether due or to become due, and may pay the same, and all payments so made shall, as between the owner and the contractor, be considered the same as if paid to the original contractor direct. Until this statement is made the contractor has no right of action or lien against the owner or the premises on account of the contract, and all payments made by the owner before such statement is made or without retaining sufficient money, and that amount be due or is to become due, to pay the sub-contractors, laborers or material-men, as shown by the statement, is considered illegal and made in violation of the rights of the persons intended to be benefited by the lien act, and their right to a lien shall not be affected thereby. If neither the owner nor his agent can be found within the county where the structure is made, the contractor is not obliged to deliver the statement as a prerequisite to the institution of proceedings to fasten his lien or such other proceedings as he may desire to be advised by law. If, however, during the progress of the work demand in writing of the contractor the statement, and if the contractor fail to furnish it within five days he is made liable to the owner in the sum of \$100 for each refusal or neglect, and all action against the contractor shall be barred by his neglect or refusal. The lien is lost unless the person entitled thereto shall make under oath and file in the office of the register of deeds of the county or counties in which the building or building or structure is situated, within sixty days from the day on which the last of the materials were furnished or the last of the labor shall have been performed, by the person claiming the lien, a true and just statement or account of the demand due him over and above all legal set-offs, setting forth the time when such materials were furnished or labor performed, and for whom, and containing a correct description of the property to be charged with the lien and the name of the owner, part owner or lessee, if known, and shall follow up the filing of such statement and shall be enforced to enforce the lien, which shall be by bill in chancery and shall be commenced within twenty days after the filing of such statement.

MINING.

MINING OPTIONS.—Any person holding a mining option or agreement for a mining lease or license to explore or mine on lands in this state, containing a clause allowing the holder his personal representatives or assigns, to surrender such lease or license at any time before the expiration of the term thereof, by giving notice, has an absolute right to have such option or agreement specifically enforced, if not in default himself, and any person holding an agreement for an interest in any mining lease or license from the lessee is entitled to have the same specifically enforced, if not in default himself. All mining options, leases and licenses are assignable and may be enforced by the holder, his heirs, administrators, personal representatives or assigns of the party or parties, whether the option contains words of assignability or not. Mining licenses for mining ore or minerals are subject to lease and sale on execution.

MINING LIENS. Every person who shall furnish or perform any labor for any corporation organized for the purpose of mining, smelting or manufacturing ores or minerals in the Upper Peninsula of Michigan, any other bona fide holder of any draft or order for the payment of money due for any such labor, issued or drawn by any officer, clerk or agent of any such corporation, is given a lien for the amount of such draft, order or bill against the real and personal property of the corporation lying and being in the Upper Peninsula, which lien takes precedence of all other debts, judgments or decrees, liens or mortgages, except liens according to the state for taxes, fines or penalties.

MINNESOTA

Compiled by A. E. McMANIS, Attorney at Law, Duluth, Minn.

CORPORATIONS.

The law of the state of Minnesota relative to the organization, powers and rights of corporations for the purpose of mining, smelting, reducing or refining ores or minerals, or for working road mines or stone quarries, marketing the material, or for manufacturing brick, stone or iron, steel, copper or other metals, or for the purpose of building, repairing and operating a mine, mineral or other lands, or for the whole or any part of said purposes, is as follows:

ARTICLES OF INCORPORATION. Any number of persons, not less than three, being desirous of forming a corporation under the above head, may do so by signing and severally acknowledging articles of incorporation which shall declare that they do

thereby associate themselves together and agree upon the articles for the purpose of forming a corporation under the provisions of an act of the legislature of the state of Minnesota, entitled: "An act to authorize the formation of corporations for mining and smelting ores and for manufacturing iron, copper and other metals," approved February 24, 1876, and the acts amendatory thereof. The articles shall also set out:

1. The name of the corporation, which shall not be the same as that previously assumed by any corporation in this state.
2. The general nature of the business to be carried on, and the name of the principal office of the corporation.
3. The names and places of residence of the persons so associating themselves to form such a corporation.
4. The amount of the capital stock and the limit of indebtedness. (This last may be omitted and provided for in the by-laws. It, however, is generally inserted in the articles of incorporation.)

RECORD, FILING, ETC. These articles must be executed in duplicate, one copy filed with the register of deeds in the county in which the principal office of the company is located, or, if the principal office is without the state, then in the county where the office of the company is located, as hereinafter provided, and the other copy with the secretary of state in St. Paul, Minn.

PUBLICATION. No publication of the articles of incorporation is necessary, but upon the depositing of the articles, as herein set out, the corporation is deemed to exist as a mechanical and manufacturing corporation, may sue and be sued in its corporate name, contract and be contracted with, and carry on the business mentioned in said articles; purchase, acquire, hold, use, sell, transfer, convey, rent and lease all such real and personal property and effects as may be necessary or convenient for the purposes of said corporation.

EVIDENCE. The certified copy of said articles from the said register of deeds and the record of the same, shall be evidence in all cases of the existence and legality of the organization of such corporation.

AMENDMENTS OF ARTICLES. The articles of incorporation may be amended by a majority vote in amount of the stock holders at any regular meeting of the same, or at a special meeting of the stockholders called for that purpose. And such amendment, after being duly certified, must be deposited for record in the same manner as the original articles.

CAPITAL STOCK. The amount of the capital stock shall in no case be less than \$10,000, divided into shares of \$100 each, and each share shall have one vote at any stockholders' meeting, and may be represented in person or by proxy in voting.

TRANSFER. Such stock is considered under our law as personal property and may be issued, sold and transferred as may be prescribed by by-law or resolution of said corporation or its managing board, and no stock purporting to be full paid shall be subject to assessment in the hands of the lawful holder without his consent. No stock in a corporation shall be transferred until prima facie subject to levy for the debts of the holder until the same is transferred to someone else upon the books of the company, unless, by by-law, the transfer is otherwise provided for.

BY-LAWS. Such corporation may prescribe and adopt by-laws for the management of its business, and such by-laws may be amended by the board of directors from time to time and may also be amended by the stockholders at any regular meeting, and such amendment by stockholders shall stand until repealed or changed by the stockholders at some regular meeting thereafter. A copy of all by-laws, duly certified, and all amendments and alterations shall be filed in the same manner as the articles of incorporation.

BOARD OF DIRECTORS. Until the corporation shall have been duly organized and the board of directors elected the persons executing the articles of incorporation shall constitute a first board of directors with full authority and power to act, to draw up and approve by-laws and do all things necessary to complete the organization of said company.

RECORD OF PROCEEDINGS. The corporation must keep a record of all proceedings had at any stockholders' meeting, in books kept for that purpose. Also all official acts of its board of directors, trustees or officers, and such record shall at all times be open to the inspection of any stockholder on demand.

OFFICE, PLACE OF BUSINESS. The officers of the company may be located without this state, and the board of directors may meet to transact business without the state, provided that an office of the corporation be maintained with some suitable person in charge within the state where legal process may be served, and where any process may be served or payment of money may be made, said office is considered and constitutes service upon the corporation.

POWERS OF CORPORATIONS TO MORTGAGE, SELL AND LEASE. Such corporation may mortgage, sell or lease its real estate on a majority vote of the stockholders and not otherwise.

SUITS AND ACTIONS. Corporations, such corporation, upon the election of a majority of the stockholders, may acquire and hold stock in other corporations.

MEETINGS. The regular meetings of the stockholders shall be provided for in the by-laws, and such by-laws shall provide for the meetings of the board of directors, but in case a majority of the stockholders at any time wish a meeting, they may call one irrespective of the by-laws, giving thirty days' notice by publication in a paper published at the place of the office of the company, or, if there be no such paper, then in a paper published at the capital of the state.

LIABILITY OF STOCKHOLDERS. The stockholders in such a corporation incur no liability for the debts of the corporation under the constitution of the state of Minnesota, except in so far as they may be deprived of the value of their stock, the liability not being a personal one.

MISSISSIPPI

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CORPORATIONS.

[Code 1892, §§ 892-901.]

Corporations for every lawful purpose and of every kind, except for the construction and operation of railroads (other than street railroads) and the carrying on of insurance business, may be created under the general laws.

The persons desiring to be incorporated may prepare a charter, which is to contain a statement of the purposes of the corporation, the name, the powers to be exercised, the period which is not to exceed fifty years, and other particulars. This is to be published in the newspapers and in the office of the clerk of the county, on the advice of the attorney-general, becomes the charter.

Corporations of benevolent societies, charitable associations and literary and religious societies, fire companies, mechanics' associations, fair associations and agricultural societies are not required to publish their charters.

Renewals and amendments shall be made in the same way as a corporation is created. Charters are to be recorded in the office of the clerk of the county, and in the office of the clerk of the chancery court of the county in which the corporation does business.

Every corporation thus created may hold necessary real and personal estate not exceeding \$250,000; banks and manufacturing companies, \$1,000,000.

Stockholders are liable for debts to the amount of their unpaid subscriptions to stock. The property and franchises of a corporation are saleable under judgment, but may be redeemed within six months. On dissolution of a corporation the assets are vested in the stockholders.

Foreign corporations which exist by the laws of any other state, or by the acts of congress, or the laws of any foreign country, may sue in this state in their corporate names, and are liable to be proceeded against by attachment or otherwise as individual non-residents.

A note or security of any kind given by any subscriber for stock, but not yet considered, shall be held as payment of any part of the capital stock of the company.

No part of the capital stock shall be withdrawn or diverted nor a dividend declared when the company is insolvent. Directors violating this are personally liable. The bonds of a corporation or trading corporation shall not exceed the amount of its capital stock paid in. It is this liability the directors are liable.

LIENS.

[Code 1892, §§ 268-274.]

Every building and any fixed machinery, and every water craft and railroad erected or repaired, is subject to a lien for labor done or materials furnished about the erection, construction, alteration or repairs thereof. In case of a house or building in a city or town the lien shall extend to and cover the lot of land on which the building stands, and if not in a town or city, the lien shall extend to and cover the acre of land on which the building may stand, if there be so much to be selected by the holder of the lien. If the structure be a railroad, the lien shall extend to and cover the entire road-bed and right of way, depots and other buildings. The lien shall be taken by the purchaser or transferee, or a valuable consideration without notice from the time of commencing suit to enforce the lien or from the time of filing the contract for record in the office of the clerk of the chancery court.

The contract by which any labor is to be performed or material furnished may be in writing and recorded in the office of the clerk of the chancery court of the county in which the work is to be done, or where the material is furnished. When so recorded it shall be a lien in favor of the person to whom it is enforced by suit within six months after the time when the money is due. Suit is to be commenced by petition in the circuit court of the county, or in the justice court if the amount is less than two hundred dollars.

All persons in interest are required to be summoned, and the state provides for trial, judgment and sale of the property to satisfy the lien.

Sub-contractors and laborers may bind the amount due the contractor by giving the owner of the property or the person who is having the work done written notice of the amount due them by the contractor. When such notice is given any amount that is due the contractor shall be considered as the payment of the debt of the sub-contractors and laborers.

A lien is also given on all carriages, buggies or any articles constructed, manufactured or repaired for the price of the labor and material employed in constructing, manufacturing or repairing the same, and the person in whom the price of said labor or material may be due shall have the right to retain possession of the articles until the lien is discharged, and if the debt shall not be paid within thirty days he may commence suit and have the lien enforced by a sale of the property.

MISSOURI

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CORPORATIONS (MINING).

FORMATION.—Any three or more persons, having associated themselves together by articles of agreement in writing, may incorporate under any name or title designating such business, for the purpose of doing any and every kind of mining.

Articles of incorporation must set forth:

1. Name of corporation, which shall not be that of any other corporation or an imitation of the same.
2. The name of the city or town and county in which the corporation is to be located.
3. Amount of capital stock must not be less than \$2,000 nor more than \$500,000 and the number of shares into which it is divided, the par value thereof, that the same has been fully subscribed and one-half thereof actually paid up in lawful money of the United States and is in the custody of the persons named as the first board of directors or managers.
4. The names and places of residence of the several shareholders and the number of shares subscribed by each.
5. The number of the board of directors or managers must be not less than three nor more than thirteen, and at least three must be citizens and residents of this state and stockholders in such corporation and the names of those agreed upon for the first year.
6. Term for which the corporation is to continue (not exceeding fifty years).
7. Purposes for which the corporation is formed.

The articles of incorporation must be signed and acknowledged by all the parties thereto and recorded in the office of the recorder of deeds of the county or city in which the corporation is to be located, and a certified copy of such instrument filed in the office of the secretary of state and a check for the state treasury of \$50 for the first \$2,000 or less of capital stock, and \$5 for every additional \$2,000 of capital stock. Thereupon the secretary of state shall issue his certificate that such corporation has been duly organized and the amount of its capital stock and such certificate shall be taken by all the courts in this state as evidence of the corporate existence of such corporation, and the persons so acknowledging such articles shall become a body corporate. Corporations must keep a general office for transaction of business in this state. If capital stock shall not be paid by note, nor can a corporation loan money to stockholders.

CORPORATE POWERS.—Every corporation, as such, has power: First, To have succession by its corporate name, for the period limited in its charter, and, second, to sue and be sued, complain and defend in any court of law or equity. Third, To make and use a common seal, and after the same at pleasure. Fourth, To hold, purchase, mortgage or otherwise use real and personal property, not exceeding the amount limited in its charter of the land creating it, and also to take, hold and convey such other property, real, personal or mixed, as may be necessary or requisite for such corporation to acquire in order to obtain or secure the payment of any indebtedness or liability belonging to the corporation. Fifth, To appoint such subordinate officers and agents as the business of the corporation shall require, and allow them a suitable compensation. Sixth, To make the laws not inconsistent with existing laws, for the management of its property, the regulation of its affairs and to the transfer of its stock. Seventh, To increase or diminish, by a vote of its stockholders, east as its by-laws may direct, the number of its directors or trustees, to be not less than three nor more than thirteen, and may, in like manner, change its corporate name without in any wise affecting its rights, privileges or liabilities, such changes of name or number of directors or trustees shall take effect and be in force from the date at which the president or secretary of the corporation shall file with the secretary of state an affidavit setting forth the name adopted and the number of directors or trustees fixed, together with the date at which such change in name or number of directors or trustees was voted by the stockholders of the corporation. Provided that no corporation shall engage in business other than that expressly authorized in its charter or the law under which it may have been or may hereafter be organized.

MEETINGS.—The first meeting of the corporation, unless otherwise provided in act of incorporation, be called by notice signed by one or more of the incorporators named in the act of incorporation, setting forth the time, place and purpose of meeting, and such notice shall be delivered to each member of the corporation in the following manner, or published in the next newspaper in the county where the corporation may be established, or, if there be no such newspaper, then in the nearest newspaper, or a justice of the peace may, on the written application of two or more members thereof, issue a warrant to either of said members directing him to call a meeting by giving the required notice. Subsequent meetings shall be called by the president and secretary by notice published for ten days setting forth the place, hour and object of such meeting, or, if they fail, a justice of the peace may, on the written application of two or more members thereof, issue a warrant to either of said members directing him to call a meeting by giving the required notice. Two sworn inspectors, not directors, shall be appointed to canvass the vote on election of directors or any other proposition to be voted on at such meeting, and certify the result to the president. In election, each stockholder shall be entitled to cast as many votes in the aggregate as equal the number of shares of stock held by him multiplied by the number of directors to be elected, in person or by proxy, for one or distribute them among two or more candidates, and shall appoint a treasurer and secretary and other officers as prescribed by the by-laws.

BY-LAWS.—In addition to the providing for the management of its property, regulation of its affairs and transfer of its stock, the by-laws may provide the time of service and mode of classification of directors, if there shall be an annual election, by which each number or proportion of directors as may be found upon dividing the entire number of directors by the number of years composing a term. The time and place of such election shall be prescribed by its by-laws. If the time is fixed by the by-laws, the election shall be held on Monday in January, of which time and place two weeks' notice shall be published in a newspaper printed at least once a week in the county; or if there be no such paper, then in a paper published in the county where the election is to be held. The election may be made for the time being by the directors to direct the manner of taking the votes of stockholders on the question of increasing or diminishing the number of directors or trustees, or changing the corporate name, but by-laws regulating the election of directors must be made at least sixty days before such election.

LIABILITY OF STOCKHOLDERS.—Stockholders are individually liable for the payment of the full amount of their stock only. Directors shall keep correct account of their transactions, and have full statements of the condition of the affairs of such corporation and a list of the stockholders and the number of shares owned by each made out, and a copy thereof delivered or sent by mail to each of the stockholders as often as once in each year, and at least ten days before the date of election, and each stockholder may at all proper times have access to the books of the company.

WAGES OF EMPLOYEES FOR ALL LABOR AND SERVICES PERFORMED by them within the twelve months next preceding a demand made therefor, or for the exceeding claims over all demands not secured by specific liens on the property of the corporation; payment of wages shall be made on or before the 15th day of each month for the full amount of all wages earned prior to the 1st day of the month. Thirty days' notice must be given to employees of the reduction of wages by written or printed handbills specifying the class of employees whose wages shall be reduced and the amount of the reduction, posted in a conspicuous place where the employees work or by mailing such notices to each employee.

REPORTS AND STATEMENT.—Every mining corporation shall make an annual report to the secretary of state on the 1st day of July annually, giving the location of its principal business office, names of its president and secretary, amount of its capital stock and actual value at the time of making the report, cash value of its personal property within this state on the 1st day of June immediately preceding; the amount of taxes, city, county and state, paid by it during the year immediately preceding the report and when and to whom paid. If the corporation is incorporated in any other state, territory or country and doing business or having an office in this state, it shall annex to the report a statement of the location of its principal office in this state, the name of its principal office, the amount of its gross and net earnings within this state during the year last preceding, the cash value of all personal and real property within this state on the 1st day of July immediately preceding; amount of taxes, city, county and state, paid by the corporation in this state for the year immediately preceding and when and to whom paid. Each of said reports shall be sworn to by the president and secretary of the corporation and be organized under the laws of this state, and by its principal office in this state if organized without this state.

FOREIGN CORPORATIONS.—A foreign corporation must maintain an office in this state where legal service may be had upon it and where proper books shall be kept to enable it to comply with the constitutional and statutory provisions governing such corporations. It must file in the office of the secretary of state a copy of its articles of incorporation, authenticated by the proper authority, and its principal office in this state shall make and forward immediately to the secretary of state a statement duly sworn to of the proportion of the capital stock of said corporation represented by its property located and business transacted in the state of Missouri, and it shall be subject to the same requirements as the secretary of state is required of similar corporations formed within this state. A certificate that it has complied with the law of this state and is authorized to do business therein is then issued by the secretary of state.

LIENS.

Persons furnishing materials, machinery or fixtures for any building, erection or improvement on land or for repairs thereof, under contract with the owner, proprietor or his agent, trustee, contractor or sub-contractor, may have a lien on the erection and improvements thereon, and the land on which the same are located, in town or city. The lien only covers the title or interest which the possessor has for whose use the structure is erected. The lien attaches to buildings when the land is previously mortgaged, and the building may be sold to satisfy the claim of the lienor. The lien attaches to the leasehold interest of the tenant, and the buildings and improvements erected by the tenant may be removed within sixty days after the lease terminates. Contractors must within six months, and after the expiration of the same, file with the office of the agent or clerk of the county where the building is a just and true account of the amount, after allowing just credits, with a description of the property sufficient to identify the same, the name of the contractor, or his agent, trustee, contractor or sub-contractor, and the name of the lienor or some person for him. The lien has precedence over all encumbrances created after the commencement of the building. Sub-contractors must serve written notices on the owner that they have a lien on the building before filing their claim. If the owner is absent, such notice is served by filing with the county recorder. Suit to enforce a lien must be commenced within ninety days after the

in office, provided that any trustee may escape such liability by filing a certificate of his objection to such payment of a dividend with the clerk of the company and with the county clerk and recorder at any time before its payment.

No loan can be made to a stockholder, and, if made, the officer so making or consenting thereto shall be liable jointly and severally to the extent of the loan and interest, and for all the debts of the company contracted before the repayment of the loan.

Any false notice, report or certificate heretofore named creates the same liability upon the trader.

It requires a two-thirds vote of all the capital stock issued at a meeting held for that purpose, after a notice published six weeks and a copy mailed to each stockholder, to increase or diminish the capital stock to the extent of change, or to change the constitution, at which meeting stockholders may appear in person or by proxy.

If the indebtedness of the company ever exceed the capital stock the trustees are personally liable to the creditors for the excess.

Trustees must cause a book to be kept which shall be open to the inspection of stockholders and creditors or their representatives, showing in alphabetical order the names of the stockholders, their residences, the number of shares held by each and when they become the owners thereof, and the amount of stock actually paid in, and creditors and their representatives are entitled to make extracts therefrom, under penalty for failure to so keep said book.

The owners of fifteen per cent. of the capital stock by a written request on the treasurer may demand and obtain a full statement of the company's affairs on twenty days' notice.

Corporations so organized have power:

1. To have succession in the corporate name for the period limited in the certificate.
2. To sue and be sued, complain and defend in any court of law or equity.
3. To make and use a common seal and alter the same at pleasure.
4. To hold, purchase and convey such real and personal estate as the purposes of the corporation may require.
5. To appoint such subordinate officers and agents as the business of the corporation shall require, and to allow them suitable compensation.
6. To make by-laws not inconsistent with any existing laws for the management of its property and the regulation of its affairs for the transfer of its stock.

Corporations so organized may exercise the right of eminent domain.

The trustees of such corporation have no power to sell, lease, mortgage or otherwise dispose of mining ground, quartz mill-shelters, concentrators or reduction works the property of the corporation, except by calling a meeting (in the manner indicated to increase or diminish the capital stock) and after submitting such matter to a vote of the stockholders, separately to the meeting so called, and being authorized by a vote of at least three-fourths of all the shares of stock of the corporation, and which vote must be carried by at least two-thirds of all the shares of the corporation.

Corporations so formed may make their stock assessable or non-assessable by so designating in their certificate of incorporation in addition to the other facts required to be stated.

No assessment shall exceed five per cent. of the amount of capital stock named in the certificate of incorporation, and no levied while any portion of any previous assessment remains unpaid, except where the collection thereof is impracticable or has been restrained. All assessments must be concurred in by a majority of the board of trustees.

Every order levying an assessment must specify the amount and the time of payment and name a day within sixty days thereafter at which if assessment is not paid the stock will be deemed delinquent, and the name of the day for the sale of the delinquent stock, which shall not be less than fifteen nor more than sixty days after the day declaring the delinquency.

Notice of the making of said order and stating said facts must be published in a local paper for four weeks and a copy delivered to each stockholder.

After stock becomes delinquent, notice must be published (in statutory form) for ten days if in a daily paper and two weeks if in a weekly paper, describing each certificate delinquent and the amount due thereon, the first day for the sale of the delinquent stock, which shall not be less than fifteen nor more than sixty days prior to the day of sale. The corporation then has jurisdiction to sell and give a complete title to the stock sold, but shall sell only sufficient to pay the assessment and costs of sale.

The delinquent stock must be sold at public auction to the highest bidder for cash and the person offering to take the least number of shares and pay the assessment and costs will be deemed the highest bidder.

No one but the amount of assessment and costs the company then has the privilege of adding it in for the assessment and costs and it then becomes treasury stock, subject to the same disposition as it never issued. The delinquent assessment and costs are thereby satisfied.

Corporations may become disincorporated by presenting a petition to the judge of the district court under the oath of the officers that it is authorized by a two-thirds vote of all the stockholders at a meeting called for that purpose, and the said court, after being satisfied that the proper steps have been taken and the necessary votes to dissolve itself given, shall enter an order declaring it dissolved and the rights of franchise shall then cease and become void.

FOREIGN CORPORATIONS. The constitution provides that no foreign corporations shall do business in the state without having one or more known places of business, and an authorized agent or agents in the same, upon whom process may be served, and no company or corporation formed under the laws of any

country, state or territory shall have or be allowed to exercise or enjoy within this state any greater rights or privileges than those possessed or enjoyed by corporations of the same or similar character created under the laws of the state.

Corporations of joint-stock companies are permitted to do business by filing with the secretary of state and in the county clerk and recorder's office of the county wherein they intend to operate a sworn copy of their charter or certificate of incorporation, and a verified statement attested by a majority of the board of directors showing:

1. The name of the corporation, the location of its principal office or place of business without the state, and if it have any place of business or principal office within this state the location thereof.
2. The amount of its capital stock.
3. The amount of its capital stock actually paid in money.
4. The amount of its capital stock paid in any other way and in what.
5. The amount of the assets of the incorporation and of what the assets consist, with the actual cash value thereof.
6. The liabilities of such incorporations, and if any of its indebtedness is secured and how, and upon what property.

This said statement must also be verified by the oath of the president and secretary of such incorporation.

Such incorporation or joint-stock company must also file at the same time and in the same office a certificate under the seal of the corporation and the signature of the president, vice-president or other acting head, and its secretary if there be one, certifying that the said corporation has consented to be sued in the courts of the state upon all causes of action arising against it in which a writ of service of process may be made upon some person who is a citizen of this state, whose name and place of residence shall be designated in said certificate, and that process when so served upon such agent shall be taken, deemed and held to be as valid to all intents and purposes as if served upon the company in the state or territory under the laws of which it is organized.

The written consent of the person so designated to act as such agent shall also be filed in the same manner.

A penalty of \$20 per day is provided for failure to comply with this law, and all acts and contracts of its agents are declared to be void as to the corporation.

The courts hold that a foreign corporation can protect its claims by litigation notwithstanding.

Every such corporation must annually within twenty days from the 1st of September make a report which shall contain the same information as the original statement, and file the same in the same offices.

LIENS.

Every mechanic, builder, lumberman, artisan, workman, laborer or other person, association, partnership or corporation who or which has done any work and labor upon or furnished any material, machinery or fixture for any building, erection, bridge, flume, canal, ditch, mining claim, quartz lode, city or town lot or lots, ranch, railroad, telegraph, telephone or electric light line, gas-pipe or water-pipe line or other improvement, upon property with the provisions of the statute shall have for his work or labor done, or material, machinery or fixtures furnished, a lien thereon and therefor.

To comply with the provision of the statute, he must within forty-five days after the completion of the work file in the office of the county clerk and recorder of the county of the liens of the property a just and true account of the amount due or owing to him after allowing all credits, and containing a correct description of the property to be charged, verified by his affidavit. The said lien extends to all the interest the person for whom the material was furnished or work done has in the property upon which the improvements are made to the extent of one acre if only one acre is owned, and of the whole lot if within said limit.

All liens filed within thirty days of the filing of the first lien shall be liens of the first class and share pro rata and be first satisfied on foreclosure.

All liens filed after said thirty days and within sixty days shall be liens of the second class and share pro rata after the first class liens are satisfied.

All liens for material furnished and work and labor done shall have priority to and precede over any mortgage or first-class lien or other lien made subsequent to the commencement of the work on any contract for the erection of such building, structure or other improvement.

Every person, including guardians of minors, married women and corporations, partnership or corporation, not tenants or lessees, for whose use, benefit or enjoyment any building, structure or improvement, as heretofore mentioned, shall be constructed, repaired or altered, shall be deemed the owner or proprietor for the purpose of the foregoing provisions of law.

Liens are foreclosed by suit in the district court, which must be commenced within one year from the filing of said lien.

An implied contract is a sufficient contract with the owner upon which to create a lien.

Sub-contractors may have a lien, but must notify the owner of the particular value of the materials at or previous to the time of furnishing same, although he may in any event recover a reasonable value and the lien is direct.

A lien is direct and is subject to a lien for material furnished as well as for labor.

A reasonable attorney's fee is recoverable as costs against defendants in foreclosure of liens for material or labor.

MINING.

Ordinance 1 to the state constitution provides that "the people inhabiting the proposed state of Montana do agree and declare

that they forever disclaim all right and title to the unappropriated public lands lying within the boundaries thereof," which includes all mineral lands, and that the same shall be and remain subject to the disposition of the United States, and that lands belonging to citizens of the United States residing without the state of Montana shall never be taxed at a higher rate than the lands belonging to the residents thereof.

lands belonging to the Republic. Article 25, paragraph 2, provides, that "aliens and denizens shall have the same right as citizens to acquire, purchase, possess, enjoy, convey, transmit and inherit mines and mining property and milling, reduction, concentrating and other works and real property necessary for or connected with the business of mining and treating ores and minerals, and that no person shall be permitted to encroach or infringe upon the authority of the United States to provide for the sale or disposition of its mineral or other public lands."

Under Section 667 of the general laws the possessory right to mining property (unpatented) and any right to possess, occupy or enjoy any portion of the public domain, as between every person, association, corporation or power, except the government of the United States, shall be respected in law and in equity in all the courts and tribunals of the state as a chattel real and possessing the character of real estate.

The character of the Federal Income Taxation of the State constitutions, both placer and rock in place, containing or bearing gold, silver, copper, lead, coal or other valuable mineral deposits, after purchase thereof from the United States, shall be taxed at the price paid the United States therefor, unless the surface ground, or some part thereof, of such mine or claim is used for other than mining purposes, or is held separate and independent of such other purposes, in which case said surface ground or any part thereof so used for other than mining purposes shall be taxed at its value for such other purposes as provided by law; and all machinery used in mining and all property and surface improvements upon or adjacent to such mines and mining claims, shall be taxed as real property or improvements on real property, and the annual net proceeds of all mines and mining claims, shall be taxed as provided by law," and the state legislation follows the constitution and makes the surface ground or any part thereof used for other than mining purposes and the improvements thereon, taxable except as personal property, claiming exemption, and not taxable except as such, taxed, until after final proof and payment have been made for patent.

quartz lode locations can be made only after the discovery on a lead, lode or ledge of a vein or exposure of quartz or ore with at least one well-defined wall. Such lode locations cannot exceed fifteen hundred feet along the lead or lode in length and three hundred feet on each side of the center thereof in width.

After discovery of quartz lode or placer mine, discoverer must, within twenty days make and file for record in the office of the county recorder of the county where such discovery is located, a declaratory statement in writing under oath, describing the claim in the manner provided by the laws of the United States.

The annual representation is shown by making and filing with the county clerk and recorder an affidavit showing

1. The name of the hole and where situated.
2. The number of days' work done and the character and value of the improvements placed thereon.
3. The date or dates of performing said labor and making said improvements.
4. At whose instance and request said work was done or improvements made.

5. The actual amount paid for said labor and improvements, and by whom paid, when the same was not done by the owner or owners of said quartz claim.

The affidavit so filed is made prima facie evidence of the facts therein stated.

PERMIT AGREEMENT. Any person desiring to locate a tunnel claim for purposes of discovery and mining shall record the same, specifying the place of commencement and the course thereof, with the names of the parties interested therein. The tunnel claimant has the right to locate a tunnel within three hundred feet from the face thereof, and that as to such veins or holes the right extends also to them for fifteen hundred feet and on each side thereof, but no further, and that the tunnel claimant has the right to locate veins or holes on each side of the tunnel and that third persons after the location of a tunnel have a right to locate veins or holes even within the distance of three hundred feet of the line of the tunnel, provided that the risk of loss of the right to locate is not thereby increased, but that the risk of loss of the right to locate is not in the event of the discovery of their veins in the tunnel, all these locations become invalid if they are within three hundred feet on either side of the line of the tunnel, and within the distance of fifteen hundred feet on each side of the line of the tunnel, and that the right to locate is made up of their veins by the tunnel claimant.

Any person who may work any tunnel is entitled to a right of way through any and all leads and lodges or ledges that may be in the course of said tunnel, provided that all quartz, ore or mineral taken from said tunnel from leads, lodges or ledges belonging to parties other than the owners of said tunnel shall be deposited on the surface by said tunnel owners and belong to the original owners or owners of said lead, lodge or ledge.

That in order to hold said tunnel claims the sand owner shall within a year from the date of pre-empting his claim run the distance of one hundred feet on said tunnel.

Any person who shall so preempt any tunnel claim shall be entitled to three hundred feet on each side of the mouth of said tunnel for the purpose of a quartz or ore yard.

Under the incorporation laws of the state a corporation formed for the purpose of excavating a tunnel shall have and hold eleven hundred feet on each side of the tunnel on all lodes discovered by them while excavating said tunnel, and through all lodes dis-

covered previous to the commencement of said tunnel they shall have the right of way.

The proprietors or owners of mining claims, whether patented under the laws of the United States or held under the local laws and customs of the state, have a right of way under the statute for the purpose of necessary purposes (such as to reach the land or mining claims patented or otherwise) of others, whenever any mine or mining claim is so situated that it cannot be conveniently worked without crossing the right of way of others, and for the purpose of conveying water, or of flume to carry water and tailings therefrom, or without a shaft or a tunnel thereto, upon the payment of such damages as shall be assessed by a committee of three or more persons appointed by the court for the damages resulting from such right of way.

MILL-SITES FOR MINING PURPOSES. Mill-sites are located under Section 2337 of the United States statutes and patented in accordance therewith.

COURT DECISIONS.—The following questions have been passed upon by the supreme court and are stare decisis in Montana:

That the rights of an adverse claimant are forfeited if he fails, within the time prescribed by the statutes, either to file his adverse claim in the United States land-office or to institute suit in the proper court to decide the same.

That a declaratory statement to a mining claim should be sworn to or it will be invalid.

An affidavit to a notice of location which did not state or refer to the date of location was insufficient.

Valid possession of the surface of a lode claim carries the right to and constitutes a possession of veins, lodes or ledges whose tops or annexes are within such surface-lines.

In the language of miners a lode is a vein containing ore; veins are narrow plates of rock intersecting other rock and are the fillings of cracks and fissures. Placers are superficial deposits which occupy the beds of ancient rivers or valleys.

That the rules and customs of any particular mining district which are reasonable constitute the American common law of mining for precious metals.

A failure to do the representation work on a quartz lode as required by the United States statutes operates as a forfeiture and subjects the claim to relocation, but this forfeiture may be avoided by a bona fide resumption of work before a relocation has been actually made.

A location must be distinctly marked upon the ground so that its boundaries can be readily traced.

Held that the representation under the act of congress of 1871 was a monument of title.

That the first locators of placer mining ground have no right by custom or otherwise to allow tailings to run free in a gulch and thereby render other claims valueless.

They may, however, work their ground with reasonable care and inquiries resulting to other locators would be damnum absque iniuria.

A patent to a mining claim being based upon an adjudication of the land department of the United States as to patentee's right thereto, and such adjudication having the effect of a final judgment, is as a rule conclusive proof of discovery, marking boundaries and the performance of all the requirements necessary to constitute a valid location.

STONE OF ARRIES.

Stone quarries are taken up under the laws relating to place mines and patents obtained by a compliance therewith.

NEIBER ASK A

Compiled by STEVENS, LOVE & COCHRAN, Attorneys at Law
Newman Block, Lincoln, Neb.

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Any number of persons may incorporate for the transaction of any lawful business. Corporations have power to have stock sold by corporate name, to sue and be sued, to make and use corporate seal and alter the same at pleasure, to hold person, estate and such real estate as may be necessary for the business of the corporation, to render the interest of the stock wholly transferable, to appoint such officers and agents as the business shall require, to make by laws not inconsistent with any existing law.

Articles of incorporation must be adopted and recorded in the office of the county clerk before commencing business, and if the corporation is organized for the purpose of constructing internal improvements, the articles shall be filed also with the secretary of state.

State. Within four months from the time of filing such articles in the clerk's office, notice of incorporation shall be published stating the corporate name, its principal place of business, nature of business, amount of the capital stock and the time and conditions upon which it is paid, the time of the commencement and termination of business, the highest amount of indebtedness allowed, which in no case shall exceed two-thirds of capital stock, and by what officers the corporate affairs are to be managed.

Copy of the by-laws and names of officers appended there
must be posted in some conspicuous place at places of business

Any amendment to the articles of incorporation must be made with the same formalities as the original articles.

The statute requires annual notice to be published in any newspaper of general circulation in the county or counties in which the business is transacted, showing the amount of existing debts, which notice shall be signed by the president and a majority of the directors.

Upon a failure to comply substantially with the statutory provisions, all the stockholders of the corporation shall be jointly and severally liable for all the debts of the corporation then existing after the corporate property has been exhausted.

Stockholders are liable for the amount of their unpaid subscription, and stockholders in banks are liable for their unpaid subscription and an additional amount equal to their subscription. Service of legal process may be had upon the president, chairman of the board of directors or trustees, or other chief officers of a corporation, or, if its chief officer is not found in the county, its cashier, treasurer, secretary or managing agent, or, if none of the aforesaid can be found, by a copy left at the office or last usual place of business.

Actions may be brought against railroad companies in any county through which their lines run.

Actions may be brought against an insurance company in any county in which there is an agency thereof. Service may be upon the chief officer of such agency.

Foreign corporations may be served by publication, or by delivering copy of process to managing agent. The property of foreign corporations is liable to seizure by attachment without bond.

Any foreign corporation may become a body corporate of this state by filing with the secretary of state a copy of its charter or articles of association and a certified copy of the resolution adopted by its board of directors accepting the provisions of the statutes of the state.

Conveyances of real estate are by deed sealed with corporate seal, signed by the president or presiding officer of the board of directors of the corporation.

LIENS.

Liens for labor, material, machinery and fixtures are allowed upon any house, mill, manufacture, building or appurtenances and the lot of land upon which the same shall stand.

The lien is secured by filing with the register of deeds a sworn statement of the items of the labor and material furnished, with a description of the land.

Contractors must file within four months, and sub-contractors within sixty days, from the date of the last item.

If building is left incomplete by the owner, laborers and material-men may proceed until the building is completed.

Where the owner of real estate enters into a contract of sale in which it is agreed as part of the consideration that the purchaser shall erect certain buildings, liens for labor and materials upon such buildings are superior to vendor's lien for purchase price.

Lien is assignable after filed.

Lien is enforced by action in equity in the same manner as mortgages; and foreclosure must be commenced within two years from the filing of the lien.

MINING.

The statutes provide that when a vein of coal shall be discovered not less than twenty-six inches in depth, of sufficient capacity to pay to mine, and within paying distance from the surface, the State of Nebraska shall pay a reward of \$4,000 to the owner or owners thereof. A like reward of \$2,000 is provided for the discovery of a vein of coal not over one foot thick.

NEVADA

Compiled by GEO. S. SAWYER, Attorney at Law, Pioche, Nev.

CORPORATIONS.

Corporations may be formed for any purpose, except to issue notes to circulate as money. Three or more persons may form a corporation by signing and acknowledging a certificate of incorporation, and having the same recorded with the clerk of the county in which the principal place of business is to be located, and also filing a copy thereof, certified under the hand of such clerk and the seal of the court of such county, with the secretary of state. The certificate must contain the name of the corporation, its object, the amount of the capital stock and number of shares, its term of existence, not exceeding fifty years; the names of its officers and directors, and the names of the persons who shall manage its affairs for the first six months, and the name of its principal place of business, relating to town and county.

The corporate powers shall be exercised by a board of trustees, not less than three in number, who shall elect stockholders, and who shall be elected annually by the stockholders.

The general powers and duties of stockholders and trustees are such as are incident to all corporations.

The corporation may purchase out-of-pocket stock, which shall be under the control of the retiring stockholders, and a majority of the remaining stock shall be held to be a majority of all stock in all subsequent transactions.

On petition of stockholders, holding a majority of stock, the district judge of the district shall call a meeting of stockholders for the purpose of removing any or all of the officers of such corporation, and at such meeting any officer may be removed and a new one elected.

Shares are personal estate and are transferable by indorsement and delivery, but such transfer is not valid, except as to the parties thereto, until entered on the books of the corporation. No dividends can be declared except upon net profits.

The debts must not exceed the amount of capital stock paid in, and the trustees who allow any excess become personally liable.

A corporation may dissolve itself by petition filed in proceedings before the district judge of the district where its office is located.

LIENS.

Every person who performs labor or furnishes materials of the value of \$5 has a lien upon the property upon which he has performed the work or for which he has furnished the material, together with enough land ground, and so on, for as much as is convenient use. This applies to work, labor, materials furnished, etc., in the carrying on of any mill, foundry, manufactory, reduction-works, etc. Any person in control of the work shall be deemed the agent of the owner of the property, and the property will be held subject to the lien unless the owner shall, within three days after knowledge of the work or material furnished, post a written notice on the property that he and the property are not responsible. Liens are preferred to all other incumbrances subsequent to the commencement of the work, and to all prior incumbrances of which the lien holder had no notice, actual or constructive.

Original contractors must file their claims of lien with the county recorder within sixty days from the completion of the work, and all other persons within thirty days, and suits upon such claims, to enforce the liens, must be commenced in the proper court within six months from the date of such filing. Claims of lien are assignable. Liens are claimed in the following order: First, all persons other than the original and sub-contractors; second, the sub-contractors, third, the contractors.

MINING.

Mining claims are located and held by virtue of the laws of the United States and local regulations, thereby authorized. There is no state regulation in this respect, except (1) in case of proceedings against delinquent co-owners under the United States statutes. The moving party must, within thirty days after the time the title vests in him, have recorded in the office of the county recorder a copy of the notice given, with an affidavit of service, if personal, or of an affidavit of publication, if published, by his clerk, when published, together with a sworn affidavit that the parties proceeded against have not paid their share of expenditure, or performed their share of labor. Such record or a copy thereof is prima facie evidence of the facts therein stated. (2) An affidavit of annual labor and expenditure made before the mining recorder of the district and recorded with him is prima facie evidence of the facts stated therein.

The right of eminent domain may be exercised in favor of mining, including or excluding a reduction of taxes.

Three or more persons, owning a majority interest in any mining claim, may form themselves into an association or corporation for the purpose of working the same, and may sue anyone owning with them, but not a member of such association of incorporation, for his pro rata share of the expense of working the same, without previous notice or demand.

Mining corporations may be compelled to allow stockholders to visit and examine the mines. Mining corporations may consolidate in any mining district, and a majority of the county recorder shall be ex officio mining recorder. Mining recorders shall transmit copies of their records to the county recorder.

NEW HAMPSHIRE

Compiled by E. S. & H. A. CUTLER, Attorneys at Law, Nashua, New Hampshire.

CORPORATIONS.

Under the general corporation laws a company can be formed to carry on any lawful business except banking, railroad and life insurance business. Such a corporation can operate mines in New Hampshire. Every corporation organized under the laws of this state which does not carry on its business in New Hampshire shall pay a charter fee on the largest amount of the authorized capital, as follows: One per cent. on the first \$10,000, one-half of one per cent. on all above that amount and under \$100,000, and three-eighths of one per cent. on all its capital above \$100,000. This is a prerequisite to recognition as a corporation.

A corporation can be specially chartered by the legislature, or organized by its members under the laws of the state, and its name, business, place of business and amount of capital, which articles shall be recorded in the secretary of state's office and in the town clerk's office where the corporation shall have its principal place of business. The clerk shall be a resident of the state. One of the shares of the capital stock can be disposed of except for cash and at par.

LIABILITY. Every stockholder shall be liable for all the debts of the corporation until the whole amount of the capital shall have been paid, and a dividend of such amount as is paid up in the office of the town clerk where the corporation is located.

LIENS.

Aside from the common-law liens and those of taxes and mortgages, the statutes give a lien to boarding-house keepers on the effects of their guests, to the keepers of horses, cattle, etc., and

LIENS.

Every building and the lot or tract of ground on which it stands is liable to the payment of any debt due any person for labor done or materials furnished for the construction of such building; and such debt is a lien upon the land and building. Debts contracted for fixed machinery, gearing or other fixtures for manufacturing purposes, and for work or materials furnished in repairing, altering or adding to such buildings, machinery and fixtures, constitute liens thereon to a tenant of land erecting a building on it, the building, and not the land, is liable to the lien, unless the owner of the land consent in writing to the erection of such building. Buildings erected on lands of a married woman, and the land as well, are liable to such lien, unless the woman file in the county clerk's office her dissent to the erection of the building. If a building be erected or repaired without a written contract, it is liable to material-men and laborers as lienors alike. If it be erected or repaired under a contract in writing, the contract or copy thereof be filed in the county clerk's office, the building and lands are liable to the lien of the contractor alone; provided, that on the payment by the owner of the money due on the contract, the contractor delivers to the owner a release of liens executed by all material-men, workmen and laborers who have furnished material for and have worked upon the building, releasing the building and lands from their claims. Such release to be binding must contain an affidavit by the contractor, stating that no person not named therein has release has any lien upon the building or lands for work done or materials furnished. Payment made to the contractor upon his tender of such a release, and without actual notice of out-standing claims, clears the buildings and lands of all liens under the contract. Where several lien claims exist against a building, they are payable concurrently and pro rata. A mechanic's lien takes priority upon the building over a prior mortgage on the land. If a purchase-money mortgage be taken on the land, and the purchaser intended to be advanced upon a building to be erected on the land by the purchaser, a lien acquired for labor or materials furnished for such building takes precedence over the mortgage against both land and building, except to the extent of the purchase price of the land as secured by the mortgage. To enforce the lien given by the statute, a claim in writing must be filed in the county clerk's office within a year from the time when the labor or materials were furnished; and a summons must be issued thereon within the year, and the suit duly presented, or the lien will lapse.

MINING.

INSPECTION.—The state commissioner of mines is empowered to visit and inspect all mines in the state and to report their condition to the governor of the state annually, with such recommendations as, in his discretion, shall seem advisable. It is his duty to see that all proper safeguards for the protection of the lives of the employees in the mine are provided, and if such protections be neglected by the proprietor of the mines, the commissioner is empowered to give the owner or lessee notice in writing stating such neglect, and to require such neglect to be immediately remedied the owner or lessee becomes criminally liable in case of death or accident to the employee through such deficiency of protection. Upon complaint in writing made by any employee in a mine that such mine is dangerous to the lives of those employed thereon, the commissioner is required to examine the mine complained of without delay; and if he find such complaint be just, he is required to notify the owner or lessee in writing of the fact, and that in his report he shall declare such mine until he shall have issued his certificate that such danger has been remedied. Any owner or lessee of a mine refusing to comply with the demands of the last-mentioned notice forfeits the sum of \$1,000 as a penalty therefor.

NEW MEXICO.

Compiled by S. M. ASHENFELDER, Attorney at Law, Denning, Oklahoma, Moxy.

CORPORATIONS.

Corporations for mining, manufacturing or other industrial pursuits, or for making and furnishing abstracts of title to real estate, or for insuring titles, or the construction or operation of railroads, wagon roads, irrigation ditches and the colonization and improvement of lands in connection therewith, or for colleges, summaries, churches, libraries, or any benevolent, charitable or scientific associations, may be formed, by filing in the office of the territorial secretary a statement in writing, signed and acknowledged by three or more persons, setting forth the full names of such persons, the name of the corporation, the objects of the company, the capital stock and number of shares, time of existence not to exceed fifty years, names of directors who shall manage its concerns for the first three months, and the name of each citizen of the United States and one-third of them residents of New Mexico. Elected annually, upon such notice and in such place as provided by the by-laws, but must be by ballot, proxies being allowed. It election be not held on day designated, it may be held on subsequent day, and directors act until election of successors.

Directors control the calling in of amounts subscribed for stock. No dividends permitted except from surplus profits. Directors personally liable if debts exceed capital stock. Trusts

and persons holding pledged stock not liable for assessment. Notices of assessment and of stockholders' meetings must be published in a newspaper four weeks.

Corporations formed in contiguous states to construct telegraph lines, railroads or wagon roads may extend into New Mexico, with the corporate rights, by filing in the office of the original certificate with the territorial secretary and the probate clerk of the county in which they are to operate. Corporate franchise of name is exclusive; also of immediate property, except in mining, mechanical or manufacturing operations.

All foreign corporations may obtain full rights in New Mexico, by filing with the territorial secretary and with the recorder of the county in which they propose to do business a copy of the charter, or, if incorporated under a general law, a copy of its articles and the general incorporation law authorizing same, and a certificate, signed by the president and secretary, duly acknowledged, designating the principal place of business and an authorized agent there residing, upon whom service of process may be had.

There is a special act for incorporation of railroads, granting exemptions and privileges. Boards of county commissioners may grant franchises for the incorporation of toll wagon roads, bridges and ferries. There is also a special law for the incorporation of insurance companies, which places particular restrictions upon the management thereof.

Corporations must organize and commence transaction of business within two years from date of filing certificate, or their corporate powers cease.

LIENS.

Every person furnishing materials to be used in the construction, alteration or repair of any mining claim, building, wharf, bridge, tunnel, canal, or other structure, or any person having a road or aqueduct or any other structure has a lien upon the same for the materials furnished, whether so furnished at the instance of the owner of the improvement or his agent; and every contractor, subcontractor, architect, builder or other person having charge, in whole or in part, is held to be the agent of the owner. All land necessary to proper use and enjoyment of the improvement is subject to the lien, and the lien is preferred to any mortgage or other incumbrance attaching subsequent to the time when materials were contracted to be furnished or which was unrecorded at such time, unless the material-man had actual notice.

An original contractor, within ninety days, and all others within sixty days after completion of the improvement, must file with the county recorder of the county in which the property or a part thereof is situate a statement of demands, with the name of the person to whom he furnished the materials, and a statement of the terms, time, place and conditions of his contract, and also a description of the property to be charged with the lien. This statement must be verified by oath of material-man or some other person. If against two or more buildings or improvements, the claimant must designate amount due upon each. All claims of lien filed after proceedings to enforce the same be commenced in proper court within one year after statement filed, or, if a credit be given, six months after expiration of such credit; but no agreement to give credit shall continue a lien in force more than two years.

The rank of liens is: First, all other persons than the original contractor and sub-contractors; second, the sub-contractors; third, the original contractors. Any number of lien claimants may join in the same action. Materials furnished after the filing of outside attachment, execution or other process, the taking of collateral security defeats a right of lien.

MINING.

Location must be distinctly marked on the ground, so that its boundaries may be readily traced. Written notice of location must be posted at some conspicuous place on the claim, and must contain a description of the location, and be subject to removal by or permanent monument. A copy of this notice must be recorded in county clerk's office within three months after date of location.

The value of a day's labor is fixed at \$4, or eight hours of labor actually performed.

Locators must sink a discovery shaft, ten feet deep from lowest part of rim at surface, and expose mineral in place, before filing location notice, and within ninety days from date of location. Surface boundaries must be fixed by four substantial posts or monuments at each corner, all marked to indicate direction.

Where mine is under lien, the lien-holder has right of entry to do the annual assessment work, if owner neglects same, and a penalty attaches for any obstruction of that right. The cost of such assessment work is made an additional lien. Following original lien as to tenor and effect. A stockholder in a mining corporation has right of entry to mine, and inspection of work, under penalty to officer or agent refusing to allow such entry. The cost of such work is made an additional lien. The owner must make a map of all workings, on a scale of one hundred feet to the inch, which shall be kept posted up at the office and the mine, open to public inspection.

False and malicious statement as to title, or knowingly making false claim or setting up a false lien, with a view to defeating sale of mining property, are felonies. It is a misdemeanor to tear down or change monuments, or remove or alter notices.

Reduction of taxes. Miners who have a claim on an old mining lease, a map of all workings, on a scale of one hundred feet to the inch, which shall be kept posted up at the office and the mine, open to public inspection.

Two shafts, slopes or outlets, separated by natural strata one hundred and fifty feet in breadth, with distinct means of ingress and egress, always available to employees, are required in each mine.

Ventilation must be adequate, not less than fifty-five cubic feet per second of pure air for every fifty men, circulated through the face of every working place, so that the mine shall be free from danger to the health and lives of employees, and every mine must have a competent inside overseer, whose special duty it is to keep watch over the ventilation, pumps, tanks and timbering, superintending signaling, and, with necessary assistance, see that such mine generally is rendered secure. It is his special duty to see that the hoisting machinery is kept in repair and ready for constant use.

The word "owner" applies to lessees. The overseer is liable to criminal prosecution for failure or neglect under the law, and, in case of death of any person through such neglect, is to be deemed guilty of manslaughter. Thorough boiler inspection is required once in three months. The act does not apply to the opening of new coal mines.

Suitable scales must be provided at each coal mine, where miners are paid by weight, with weights sworn to accuracy and correctness of account. A copy of the oath is required to be conspicuously posted in place of weighing. Record of each miner is to be separate and open to his inspection and the inspection of all interested in the output. Miners may furnish a check weighman with full right of access and examination, who must also make oath, to be conspicuously posted. Any person, guilty of incorrect weighing or recording, or being accessory thereto, is criminally liable. Any person, owner or agent, failing to comply with any of the provisions of the act regulating weighing, is liable to criminal prosecution.

Convicts may not be employed in New Mexico coal mines.

NEW YORK

Compiled by HASTINGS & GIBSON, Attorneys at Law, 26 Broadway, New York.

CORPORATIONS.

Corporations may be formed in the state of New York for the purpose of conducting any lawful business. In 1891 various special corporation laws were repealed and a general act passed providing that five or more persons, a majority of whom shall be citizens and residents of the state, may become a corporation for the purpose of carrying on any lawful business, by incorporating, signing, acknowledging and filing a certificate which shall contain:

1. The name of the proposed corporation.
2. The object for which it is to be formed, including the nature of its business, its term of years, and its powers.
3. The amount and description of the capital stock.
4. The number of shares of which the capital stock shall consist, each of which shall not be less than five \$5 nor more than one hundred dollars, and of which shares, by its incorporation, it shall be authorized to issue.
5. The location of its principal business office.
6. Its duration, which shall not exceed fifty years.
7. The number of its directors, not less than five, not more than thirteen, who shall each be a stockholder, having at least five shares of stock.
8. The names and postoffice addresses of the directors for the first year.
9. The postoffice addresses of the subscribers and a statement of the number of shares of stock which each agrees to take in the corporation, the aggregate of which subscriptions shall not be less than one tenth of the capital stock, and ten per cent, of which must be paid in cash to the directors named in the certificate, and the balance of such certificate must be paid or annexed thereto, as a part thereof, the affidavit of at least three of the directors, that the requisite amount of stock has been subscribed, and the prescribed percentage thereof paid in cash to the directors.

Every certificate of incorporation must be filed in the office of the secretary of state and of the clerk of the county where the principal place of business of the corporation is, or is to be located. All taxes required by law to be paid before incorporation and the fees for filing and recording such certificate must be made before filing, and no corporation shall exercise any corporate powers or privileges until such taxes and fees have been paid.

The tax here specified is one eighth of one per cent upon the capital stock of the company to be incorporated, and the record and fees in addition to this amount at \$15.

The amount of capital stock may be increased or decreased, and the principal place of business of the corporation may be changed. No corporation shall engage in the transaction or managing of the business after it is incorporated, until one half of its capital stock has been subscribed, and ten per cent, thereof shall have been paid in cash, and until the certificate has been approved by laws of the corporation and shall have been filed in the office where its certificates of incorporation were filed a further certificate, executed and acknowledged by the president and treasurer of the board of directors, that the effect of the one half of the capital stock of the corporation has been in good faith subscribed and ten per cent, thereof actually paid in cash, and that the by-laws of the corporation have been adopted, and a copy of the subscription list to the stock of the corporation and a copy of the by-laws shall be annexed to such certificate, and the same shall be verified by the oath of the president and treasurer to the effect that the statements contained in it are true.

The by-laws of the corporation shall be adopted at a meeting of stockholders, who have subscribed in the aggregate at least one-half of the capital stock, and paid in ten per cent, of such subscription in cash. This meeting shall be called by the directors named in the certificate, by serving, at least five days before the meeting, upon every stockholder personally, or by depositing in the postoffice a copy addressed to him at his last known place of residence, postpaid, and directed to a written notice stating the time, place and object of the meeting.

The by-laws are required to provide for the following matters:

1. The term of the office of the directors, which shall not exceed three years.
2. The manner of filling vacancies among directors and officers.
3. The time and place of the annual meeting.
4. The mode of calling and holding special meetings of the stockholders.
5. The number of stockholders who shall attend, either in person or by proxy, in order to constitute a quorum.
6. The powers of the corporation, always including a president and secretary, and a treasurer, the manner of their election, by and among the directors, and their powers and duties.
7. The manner of electing or appointing inspectors of election, and the manner of amending by-laws.

No amendment of the by-laws of any such corporation shall take effect until a copy thereof, verified by the president and secretary, shall have been filed in the offices where the original certificates of incorporation were filed.

LIABILITIES.—The liability of every stockholder shall be paid in, one-half within a year, and the other half within two years from its incorporation, or the corporation shall be dissolved. The directors, within thirty days after the payment of the last installment of capital stock, are required to make a certificate of the capital stock so paid in, which shall be signed and sworn to by a majority of the directors, and filed in the offices where its certificates of incorporation are filed.

LIABILITIES OF STOCKHOLDERS.—Corporations may be formed as full liability companies, in which case the stockholders are liable to its creditors for all the debts and liabilities of the corporation. In other corporations the stockholders are only liable for the debts of the company until the stock is full paid and the certificate has been filed. This liability is equal to the amount of stock held.

Corporations are required within twenty days after the 1st of January in each and every year to make a report which shall contain the amount of capital stock actually paid, the amount and general condition of its existing assets and debts, and of its receipts and expenditures during the year, the names of its then stockholders, and the dividends, if any, declared since the last report. The report must be signed by the president and a majority of its directors, and verified by the oath of the president and treasurer, and filed in the office of the secretary of state, and in the office of the county clerk of the county where the corporation is located.

If such report is not so made, and so filed, all the directors of the corporation shall jointly and severally be personally liable for all the debts of the corporation then existing and all contracted before the report shall be made.

FOREIGN CORPORATIONS.—Foreign corporations doing business in the state of New York may acquire such real estate in the state as may be necessary for its corporate purposes in the transaction of its business within the state, and convey the same by deed, or otherwise, in the same manner as a domestic corporation.

Foreign corporations may also make any contracts in the state the same as a domestic corporation.

The courts, however, have no jurisdiction in actions brought against foreign corporations, unless the plaintiff is a resident of New York, or the contract or cause of action arose in the state, or is brought to affect property situated in the state.

LENS.

Any person who shall hereafter perform any labor in or about the sinking, drilling or erecting of any oil well, or any well sunk or drilled for oil or other valuable fluid or gas, or any well within the state of New York, or in sinking or drilling any water well, sunk or drilled for the purpose of drilling or operating any such oil well or other well as aforesaid, or who shall erect, build or furnish any tank or other receptacle for oil, gas or water, which shall be built, erected or furnished for any of the purposes aforesaid, or who shall perform any labor or furnish any materials in or for the building or erecting of such tank or other such receptacle, or who shall as aforesaid, or who shall furnish for any of the purposes aforesaid, including tubing, casing, slick rods, packets or other appurtenances or appliances to any such well as aforesaid, with the consent of the owner, being such owner, or the person in whose name the well is sunk or drilled, with the county clerk of the county in which the property is situated, upon notice, have a lien for the value of such labor and materials upon such tank or other receptacle as aforesaid, and upon the oil, gas or water which is or shall be produced from the well, premises, parcel or farm of land upon which the same shall be situated, to the extent of the right, title and interest of the owner of the property, whether owner in fee or of a less estate, or whether the owner of the property is a tenant, or vendor in possession under a contract existing at the time of the filing of said notice.

The notice must be filed within sixty days of the completion of such labor or the final furnishing of such materials, and specify the date of the completion of such labor, or the date when the lien is made, the owner of the land or the party in interest. Whenever the labor is performed by a contractor who shall have made a contract with the owner of the property, any money

remaining in the hands of the owner, upon filing the notice with the owner is subject to a lien filed.

Where the claim is made against the contractor, notice must be served upon the owner, and the amount of the claim, who cannot relieve himself of the liability by making payments to the contractor after the service of such notice.

Every lien shall continue to the expiration of six months of the time of filing notice, unless action is commenced within that time to foreclose, and the lien shall continue until judgment shall have been rendered, and for one year thereafter, pending an appeal taken, if any.

MILLDAMS.

In all cases of application to the legislature for the passage of laws authorizing the constructions of dams, in or across the streams and waters of this state, which are by law public highways, the following notice is to be given:

The notice shall be given for at least six successive weeks immediately before such application, or before the first day of the session at which the same is to be made, in a newspaper printed in the county, or in each of the counties where the objects of such petition are intended to be carried into effect.

Private waterways can be constructed on land owned by person creating dam, but such constructing must not interfere with the rights of property of other persons on the stream above or below dam.

MINING.

The statute provides that the following lands are and shall be the property of the people of the state, in their right of sovereignty:

1. All mines of gold and silver discovered within the state.
2. All mines of other metals discovered, or hereafter to be discovered, upon any lands owned by persons not being citizens of the United States.
3. All mines of other metals discovered, or hereafter to be discovered, upon lands owned by a citizen of the United States, the ore of which, upon the average, shall contain less than two equal third parts in value of copper, tin, iron and lead, or any of those metals.

All mines and all minerals and fossils discovered, or hereafter to be discovered, upon any lands belonging to the people of this state, are, and shall be, the property of the people, subject to the provisions hereinafter made to encourage the discovery thereof.

All mines of whatever description, other than mines of gold and silver, discovered or hereafter to be discovered, upon any lands owned by a citizen of any of the United States, the ore of which, upon an average, shall contain two equal third parts or more in value of copper, tin, iron and lead, or any of those metals, shall belong to the owner of such land.

Every person who shall make a discovery of any mine of gold or silver within this state, and the executors, administrators or assigns of such person, shall be exempted from paying to the people of this state any part of the ore, produce or profit in such mine, for the term of twenty-one years, to be computed from the time of giving notice of such discovery, in the manner hereinafter directed.

No person discovering a mine of gold or silver within this state shall work the same, until he give notice thereof, by information in writing, to the secretary of this state, describing particularly therein the nature and situation of the mine. Such notice shall be registered in a book to be kept by the secretary for that purpose.

In all cases in which a person or persons shall have discovered a mine of mines, and become entitled to work the same, such person or persons shall form a corporation; if the consent in writing to enter upon and break up the lands of any person in or upon whose lands said mine or mines are found shall be refused or cannot be obtained by agreement, or by reason of the infancy or the absence of such person from the state, or other legal disability of the owner of such lands, the said corporation so formed may enter upon or break up the lands of such person for that purpose, without the consent of the owner, in the manner hereafter provided, and the right and easement so to do shall be deemed granted for public use, and for the public purpose of obtaining minerals reserved to the state, and the said right and easement are hereby granted to the corporation so formed, on their filing, with the commissioners of the land-office a full description of the location of such lands and obtaining a grant thereof from said commissioners, who are authorized to make such grant and file the terms thereof.

No notice is so provided as to what the size of the claim shall be.

The company entitled to work the mines are required to file a petition in the supreme court, setting forth the facts on which they claim such rights and the reasons which prevent them or anyone in and upon so doing, and upon the filing of such petition the court may appoint three disinterested persons as commissioners to examine into the matter, ascertain and fix the damages above-said, and report to the court. Notice of the filing of such petition shall be published in one of the papers printed in the county, or in each of the counties where the mine or mines are situated, and in the state paper, and a copy of such notice shall be served personally upon the owners of the land, or, if they are infants, upon their guardians and upon the owners of such lands, or their legal advisers, or their heirs, or their assigns, or their property. And the publication of such notice in the state paper shall be deemed a sufficient notice to such owners as are residents in other states or in other countries, or are temporarily absent from the state, provided that when the actual residence of such absentees is known or can be ascertained, a copy of such notice and petition shall be sent them by mail. All the companies interested shall be entitled to a hearing before such commissioners at such time and place as the commissioners shall appoint. The report of the commissioners shall state:

1. The existence of the mine or mines proposed to be worked.
2. The names of the parties owning the land in which the mine or mines are situated, and the owners of the adjacent lands, and how far they are affected by the application, and the nature and value of their interest in the same, individually.
3. An estimate of the damages to such owners from the contemplated use and occupation of their land.
4. Such other information as the court may direct.

The report of the commission shall be made within reasonable time fixed by the court, and an order made either denying the petition or granting it, and granting the compensation, if it be necessary, the damages to the property and the annual rent or the compensation to be paid to the owner, lessee or occupant thereof so long as the use and occupation shall continue. And thereupon the company in whose favor the order shall be made, upon payment of the damages, and upon entering into an agreement, to be approved by the court, to pay the annual rent or the compensation and damages thus determined, shall have the right to enter upon and occupy and use the land set apart by such order, so long as the use or their assignees shall work the said mine or mines, and shall pay the said annual rent or compensation.

QUARRIES.

On this subject there are no statutory enactments, the owner of the property being entitled to excavate for quarries the same as other real estate owned by him.

NORTH CAROLINA

Compiled by WALTER E. MOORE, Attorney at Law, Webster, N. C.

CORPORATIONS.

Corporations for mining and manufacturing may be formed before the clerk of the superior court, and may hold land, and not to exist longer than sixty years. The articles of agreement shall set forth:

1. The corporation name.
2. The business proposed.
3. The place where it is proposed to be carried on.
4. The length of time desired.
5. The names of persons who have subscribed.
6. The amount of the capital and the number of shares and amount of each.

These articles shall be under the hands and seals of the parties applying for such corporation.

Powers. To sue and be sued by its corporate name; to have a common seal; to render interest of stockholders transferable; to exempt the private property of stockholders from liability for corporate debts; to make contracts, acquire and transfer property; but all contracts involving or incurring a liability by the corporation can amount exceeding \$800 must be in writing and signed by some proper officer of the corporation or under the common seal.

A corporation may be dissolved as follows:

1. For any abuse of its powers to the injury of the public or of the corporation, or of its creditors or debtors.
2. For non-user of its powers for two years or more consecutively.
3. For insolvency manifested by the return of an execution unsatisfied upon a judgment against the company docketed in the superior court of the county where it has its only or principal place of business.
4. Upon any conviction of the company of a criminal offense, if such offense be persistent.

LEAS.

Materials furnished by a lien on every building, lot, farm or vessel that materials furnished by them to build, repair or remove. The lien also covers the lot on which the building or improvement is made, and is superior to any lien or incumbrance created after the materials are furnished. The claim for a lien must be filed in the office of the clerk of the superior court within twelve months after the materials are furnished. This claim must be verified and must contain the names of the parties, a bill of the items so as to show the amount due, and a description of the property on which a lien is claimed, and if there be a special or written contract, its terms must be stated. To enforce the lien a suit must be begun in the superior court within six months after the lien is filed. Sub-contractors must not only file the lien, but must also notify owner before he files the lien with owner, and through owner with statement of amount due. Owner may require contractor to furnish an itemized statement of amounts due materials-men. Owner may retain enough out of contract price to pay materials-men. Owner cannot be held liable to sub-contractor for greater sum than was the contract when notice is given him of the claim of a lien by sub-contractor.

MILLDAMS.

Anyone desiring to erect a milldam on a stream of which he owns one side and part of the bed, and who cannot agree with the owner of the opposite bank as to the amount of damages, may file a petition in the superior court of the county where such dam is to be erected, and the court will appoint three disinterested persons as commissioners who will assess the damages. After

If voluntary, its dissolution may be effected by its voluntary application to the district court for that purpose.

If a corporation does not organize, and the convenience of the transaction of business within one year from date of its incorporation, its corporate powers cease.

ASSESSMENT OF STOCK.—After one-fourth of the capital stock has been subscribed, the directors may levy assessments upon the subscribed stock, for the purpose of paying debts, paying expenses, or conducting business.

No assessment must exceed ten per cent. of the amount of the stock named in the articles of incorporation unless the whole capital stock is not subscribed, and the corporation is unable to pay its debts, when the assessment may be for the full amount unpaid. Railroad corporations may assess stock ten per cent. per month, and initial life, fire and marine insurance companies such a sum as they deem proper.

Every order levying an assessment must specify the amount, when, to whom and where payable, and fix a day upon which unpaid assessments shall become delinquent.

Notice of assessment must be personally served on each stockholder, or sent to him by mail, and same must be published for four weeks in a newspaper published at the principal place of business of the corporation.

If assessments are unpaid, notice of sale must be published in the same paper for ten days if in a daily, or two weeks in a weekly, specifying certificates, number of shares represented, and amount due thereon.

By publication the corporation obtains jurisdiction to sell stock upon which assessments are unpaid, and the corporation is unable to pay its debts, when the assessment may be for the full amount unpaid.

Stock must be sold at public auction on the day and place named in the notice to the highest bidder for cash.

The person offering to pay the assessments and costs for the smallest amount of stock is the highest bidder.

If he bidder offers the amount of the assessments and costs the stock may be bid in by the corporation, and becomes its property, and while so held is not subject to assessment, nor can any dividend be declared thereon.

An action can be sustained to recover stock so sold unless the party seeking to maintain such action shall first tender the sum for which it was sold, with delinquent assessments which have been paid thereon, and interest on such sums from the date of payment.

EXAMINATION OF CORPORATIONS.—The legislative assembly may examine into the affairs of any corporation at any time, and the committee appointed by such legislature shall have power to administer oaths to the officers of such corporation, and examine them as to the condition of the corporation, and may compel the production of all keys, books, papers and documents.

LIENS.

Every miner or other person who, at the request of the owner or owners, or his or their agents, of any lode, lead, ledge, mine or vein, or of any bearing, tunnel, shaft, or other mine, or at the request of any contractor or sub-contractor, shall perform any labor or furnish any material in or about such mine, shall have a lien upon such mine, to secure the payment of the same.

Miners or other persons performing labor or furnishing any materials to a contractor may furnish an attested copy of their account to the owner of the mine or of his agent, and he shall retain the amount thereof out of the first subsequent payment to the contractor for whom the work was done or materials furnished.

The owner shall furnish the contractor against whom account is claimed a copy of the same, and if he fails or refuses to dispute the claim, or if disputed fails to have the same adjusted, he shall be deemed to have assented thereto.

The amount which may be due from any contractor to his creditor may be recovered from the owner of the mine, by the creditor of the contractor, to the extent in value of any claim made by the creditor to the contractor, at the time of the notice of indebtedness first given.

Any person claiming a lien shall make his account in writing, and after making oath thereon, shall within sixty days from the date of the last item of the account file the same in the office of the clerk of the district court, then, at the same time a correct description of the property to be charged with the lien, and the same shall for one year from the furnishing of the last item of the account be a lien upon the property charged in the description, if work was done or materials furnished under a written contract, copy of same shall be filed with account and oath.

The holder of a lien may proceed to obtain judgment for the amount of his account by filing a bill of complaint during the pendency of his action the lien sued upon shall still continue.

MINING.

LOCATION AND SIZE OF CLAIMS.—Length of lode claims may equal but shall not exceed one hundred feet, width shall not exceed one hundred feet, and the center of the center of vein. Any county may, by majority vote at a general election, make a greater width, not to exceed three hundred feet each side of center, or less, but not less than twenty-five feet each side of center.

The discoverer of a lode must within sixty days from discovery record his claim in the office of the register of deeds at the county in which the lode is located. The location certificate must show the name of lode, name of locator, date of location, number of feet in length, number of feet in width claimed and general course of lode.

Before filing certificate the discoverer must locate claim by sinking discovery shaft, and post on surface notice containing name of

lode and other particulars as required in certificate, and must mark surface boundaries of claim.

Surface boundaries must be marked by posts, set one at each corner and one at the middle of each side, and, corner end or side next to claim with the name of lode, and the corner end or side they respectively represent.

The discoverer shall have sixty days from the time of discovery of lode to sink a discovery shaft.

The location certificate shall include all surface ground within the surface line thereof, and all lodes and courses throughout their entire depth, the top or apex of which lies inside such lines extended vertically, with such parts of all lodes or ledges as continue by dip beyond the side-lines of the claim, but shall not include any portion of such lodes or ledges beyond the end-line of the claim, nor beyond the side-lines except by dip of the lode.

When the right to mine is separate from the ownership or right of occupancy of the surface, the owner or occupant may demand satisfactory security, and if refused may enjoy the mine. If locator denies the original certificate defective, he may file an amended certificate, provided it does not conflict with existing rights. Re-location does not preclude the locator from proving title under his previous location.

To hold possession of a mining claim \$500 worth of work must be done or improvements made each year.

Re-location of abandoned claims shall be by new discovery-shaft and fixing new boundaries, and the location certificate must state that the whole or part of the new location is on abandoned property.

No location certificate shall contain more than one location, whether made by one or more locators.

DISPUTED MINING PROPERTY.—In actions wherein the title or right of possession to mining property shall be in dispute, the judge may upon application order both a surface and underground survey, and shall designate the parties to the survey.

Judges of the district court have power to issue writs of injunction for affirmative relief, having the force and effect of a writ of restitution, restoring any person to the possession of mining property from which they may have been ousted by force or fraud, such writ to be extended only to the right of possession, leaving the parties to their legal rights as though no such writ had issued.

RIGHT OF WAY.—Proprietors of mining claims have right of way across lands of others, for road, ditch, flume, shaft or tunnel, provided such claim is so situated that it cannot be worked without.

If right of way cannot be secured by agreement, the same may be had on petition, duly verified, to the district court, setting forth the facts, and demanding the relief sought.

On filing of such petition the court shall issue a citation to the owners of lands across which right of way is asked, to show cause why such right of way be not granted.

If the judge is satisfied on hearing the proof that right of way should be granted, he shall issue an order to that effect and shall appoint appraisers to assess damages to lands affected by his order.

The commissioners shall examine the premises and report damages to the court.

Upon payment of the assessed damages, the petitioner shall be entitled to the right of way asked for and to enter upon the premises and erect structures or dig excavations.

Appeals from appraisal may be made to the court, and there tried by the court or a jury.

The pendency of an appeal shall not prevent the applicant for right of way from occupying the premises, on filing a bond to pay any damages assessed by the court or jury.

If applicant recovers \$50 more than assessed damages, he shall also recover costs of appeal, otherwise shall pay his own costs.

WATER RIGHTS.—Any person holding title to mineral land shall be entitled to the usual enjoyment of the waters of streams and creeks flowing over or under the same, and to such extent shall not conflict with any prior right or claim to such water when the law has been complied with in doing the necessary work.

When the owners of land have no available water facilities upon them, or if the land is too far removed to use the waters of such stream or creek, such owner shall have the right of way through any piece of land for the purpose of conveying the water from such stream.

The right of the owner of surface shall only extend to such digging as is necessary for the purpose required.

In all controversies respecting the right to water, the same shall be determined by the date of appropriation as made by the first appropriator.

Waters of streams may be made available to the full extent of their capacity, without regard to their deterioration, quality or diminution in quantity, so that the same do not materially affect or impair the right of their prior appropriator.

Damages caused by digging ditches or building flumes shall be paid by party committing the injury.

Ditches or other artificial water courses across highways shall be used and water not allowed to damage such highway, under penalty of fine of \$100.

Party appropriating water shall dig at least twenty feet of ditch and turn water from stream therein within thirty days from date of appropriation, and shall dig or right to such right of ditch within six months, and within twenty days from appropriation shall file location certificate with register of deeds, and shall post a copy of location certificate at head of ditch, which shall contain name of locator, date of location and number of feet claimed.

Failure to commence construction of ditch or flume shall be considered abandonment of appropriation.

within thirty days from the expiration of said three months, with the recorder of the county, an itemized statement of the claim. When the lien has been thus secured, it will continue valid for one year from such filing, and to the end of any action begun within that time to enforce such lien. (S. O. L., 183.)

RIGHT OF WAY.

All mining, quarrying, etc., claims shall be subject to the right of way of any ditch, flume or sewer, etc., for mining purposes, or any tramway or road, etc., provided such right of way shall not be exercised against, and to the end of any action begun, and not abandoned prior to the establishment thereof, without consent of the owners, except by condemnation.

Mine owners have the right to appropriate private property to such extent only as to work their mine according to the law, that is, as to shafts, cuttings, races, etc., giving workmen distinct means of ingress and egress.

OKLAHOMA TERRITORY.

Compiled by WILLIAM BLINCOE, of Wm. Blincoe & Roy Hodman, Attorneys at Law, Guthrie, O. T.

CORPORATIONS.

CREATION. Private corporations for mining, quarrying and other business purposes are created by filing with the secretary of the territory a copy of the articles of incorporation, setting forth the names and principal place of business, the firm, number, names and residences of directors and the amount of capital stock and number of shares, which articles must be subscribed by at least three persons, one-third of whom must be residents of the territory, upon which the secretary of the territory issues the certificate of incorporation. A corporation must begin business within one year from the date of its charter.

SUSPENSION. Every grant of corporate power is subject to alteration, suspension or repeal in the discretion of the legislature. They may be dissolved in the usual way.

OFFICERS. There must be not less than three nor more than eleven directors, who shall be elected for one year and shall be stockholders. No dividend shall be declared except from surplus profit, and any director who shall permit any dividend from the capital stock, or create any debt beyond the capital stock, shall be liable personally to any party damaged, unless he shall cause his dissent to be entered on the minutes. Any officer making a false representation in an official report or on the books of the corporation shall be liable to any person for all damages he may sustain.

STOCKHOLDERS. Each stockholder of a corporation is individually and personally liable for the debts of the corporation to the extent of the amount that is unpaid upon the stock held by him. The capital stock may be increased or diminished by a two-thirds vote, but shall in no case be decreased to a less amount than the undivided stock. Stock is negotiable, but only affects third parties when transferred on the books of the association.

The legislature may at any time cause an investigation of the affairs of a corporation. A corporation must keep a record of its business proceedings, which shall be open to every member and creditor.

MINING AND MANUFACTURING CORPORATIONS. Such corporations are organized as other corporations and are subject to their duties and liabilities, but their term of existence shall not exceed twenty years. The purpose of the organization must be distinctly stated.

STOCKHOLDERS. Stockholders in such corporations are jointly and severally liable in their individual capacities for all debts due to mechanics, workmen, laborers, employed by such corporations, and said liability may be enforced at any time after an execution against the corporation has been returned unsatisfied. This action must be commenced within four months, and the stockholders are liable for the amount of the debt.

REPORT. Every such corporation must once each year publish a statement of its business, indebtedness and profits.

Such corporations may have their business office within or without this territory. They may have a right of way to run a tunnel in any place they may desire. They must begin work within ninety days from the date of the charter and finish within two years or forfeit all right save as to lands owned by such corporations. If the corporation has its place of business in the territory it shall be allowed four years in which to complete the work.

FOREIGN CORPORATIONS. No corporation shall transact any business in this territory until it shall have filed in the office of the secretary of the territory an authenticated copy of its charter and shall have appointed an agent to reside in the territory. A duly authenticated copy of the appointment of such agent shall be filed with the secretary of the territory and with the register of deeds of the county where such agent resides.

LIENS.

Every person who shall do any labor upon, furnish any materials, machinery or fixtures for any building, erection or other improvements on any land, including those engaged in the construction or repair of any work of internal improvement, by virtue of any contract with the owner, his agent, trustee, contractor or subcontractor, upon compliance with the provisions of this article shall have a lien upon such building, erection or improvement, and upon the land belonging to such owner on which the same is situated, to secure the payment.

A sub-contractor must file his notice of lien with the clerk of the district court within sixty days after the last of said work shall have been done, or material furnished, and an original contract with within ninety days, but a failure to file the said notice within the said time shall not defeat the lien except as against purchasers or encumbrancers in good faith without notice, whose rights accrued after the sixty or ninety days and before the claim for lien was filed.

No lien is created upon the homestead unless the contract for the material is in writing, and then if the amount is over \$100 the wife must sign the contract and acknowledge in the same manner as if deed for the homestead. An action to enforce a lien must be begun in the district court within one year from the filing thereof.

OREGON.

Compiled by ROBERT G. SMITH, Attorney at Law, First National Bank Building, Grant's Pass, Ore.

CORPORATIONS.

Private corporations are formed under a general law by three or more persons making, subscribing and acknowledging, as in the case of articles of incorporation, a deed for incorporation, filing one copy with the secretary of state, one with the county clerk of the county where the principal office or place of business of the corporation is to be, and retaining the third in the possession of the corporation.

1. The name assumed by the corporation and by which it should be known, and the duration of the corporation, if limited.
2. The enterprise, business, pursuit or occupation in which the corporation proposes to engage.
3. The place where the corporation proposes to have its principal office or place of business.
4. The amount of capital stock of the corporation.
5. The amount of each share of such capital stock.
6. If the corporation is formed for the purpose of navigating any stream or other water, or making or constructing any railroad, macadamized road, plank road, clay road, canal or bridge, the terminal of such navigation, road or canal, or the site of such bridge.

After filing the articles of incorporation, the incorporators open books and receive subscriptions to the capital stock. After one-half or more of the capital stock is subscribed, the stockholders meet and elect directors.

DIRECTORS. A director must be a stockholder in the corporation and a resident of the state of Oregon, except that in corporations for the purpose of constructing railroads or military wagon roads, canals or flumes, or carrying on mining enterprises, or publishing newspapers, or conducting institutions of learning, a minority of the board of directors may reside out of the state. Directors must take an oath of office. The directors elect a president and secretary, and such other officers as are required.

POWERS. The corporation has authority by the name assumed in the articles.

1. To sue and be sued.
2. To contract and be contracted with.
3. To have and use a corporate seal, and the same to alter at pleasure.
4. To purchase, possess and dispose of such real and personal property as may be necessary and convenient to carry into effect the objects of the corporation, and to take, hold, possess and dispose of all real and personal property donated to such corporation by the United States, or by any state, territory, county, city or other municipal corporation, or by any person, firm, association or private corporation, for the purpose of aiding in the carrying on of such corporation.
5. To appoint such subordinate officers and agents as the business of the corporation may require, and prescribe their duties and compensation.
6. To make by-laws not inconsistent with any existing law for the sale of any portion of its stock for delinquent or unpaid assessments due thereon, which sale may be made without judgment or execution, provided that no such sale shall be made without thirty days' notice of the time and place of sale in some newspaper in circulation in the neighborhood of such company, for the transfer of its stock, for the management of its property, and for the carrying on of its affairs.
7. To increase the object or purpose for which any such corporation is incorporated is in whole or in part to construct, or construct and operate a railroad, to lease any part or all its road to any other company incorporated for the purpose of maintaining and operating a railroad, and to lease or purchase, maintain and operate any part or all of any other railroad constructed by any other company upon such terms and conditions as may be agreed upon between said companies respectively. Any two or more railroad companies whose lines are connected may perfect an arrangement for their common benefit to assist and promote the object for which they were created, provided that nothing in this act shall be construed to authorize the leasing of any railroad line to any company or corporation existing a road which forms a connecting or parallel line to its railroad.

The stockholders meet annually and elect directors, who hold their office for one year and until their successors are elected and qualified.

STOCK. The stock in private corporations is personal property and subject to attachment, execution, levy and sale as such. All sales of stock, whether voluntary or otherwise, transfer to the purchaser all rights of the original holder, and subject such purchaser to the payment of any unpaid balance due on such stock; but if the sale be voluntary, the seller is still liable to the creditor for the amount of said balance, unless the same be paid by the purchaser.

A corporation failing to elect directors and commence the transaction of business within one year from the filing of the articles of incorporation, or continuing to operate for more than six months, forfeits its corporate existence. The capital stock may be increased or diminished, or the amount of the shares changed by a majority vote of the stock at a stockholders' meeting called for that purpose.

SUPPLEMENTARY ARTICLES OF INCORPORATION. The directors may file supplementary articles of incorporation when authorized by vote of the stockholders, for the purpose of engaging in any new enterprise, etc.

LIABILITY OF STOCKHOLDERS. The stockholders are liable for the indebtedness of the corporation to the amount of their stock subscribed and unpaid, and no more. Corporations organized for constructing railroads, etc., may exercise the right of eminent domain, but are not empowered to condemn land for compensation to be paid by them fixed by action in the circuit court.

FOREIGN CORPORATIONS. Foreign corporations, upon complying with the laws of the state, may do business therein as like domestic corporations. Municipal corporations are created by special acts of the legislature.

ELENS

LENS FOR MATERIAL are given any person furnishing material to be used in construction, alteration or repair, in whole or in part, of any building, wharf, bridge, dam, tunnel, fence, machinery, aqueduct, mine, mining, ditch, canal, or other work, or deposit yielding metals or minerals of any kind, or any structure of superstructure, or in grading or improving any lot in an incorporated town or city, for the value of the same, when furnished at the instance of the owner of the land.

The land on which the building or improvement is located, with a convenient space around the same, is subject to the lien to the extent of the interest owned by the person causing the improvement to be made, in real estate, or the interest of any person or persons having or claiming an interest therein. Such lien is preferred to any unrecorded incumbrance of any mortgage attaching to the land subsequent to the time materials commenced to be furnished, and placed on or attached to the land, and the lien shall be an incumbrance on the building or other improvement, preferred to all prior incumbrances on the land, and in enforcing the lien the building may be sold separately.

The original contractor must file his lien within thirty days from the time he ceases to furnish materials, and others have sixty days. Liens are filed with the county clerk of the county, and are binding for six months from date of record, if a debt is given, then six months from date of credit, but no lien shall continue in force for more than two years, or be foreclosed by a suit in equity in the circuit court. Liens do not attach to public property.

MINING

The constitution provides that no human nor a resident of the state at the adoption thereof shall hold any mining claim or work any mining claim.

Any person or company establishing a lode claim is allowed to possess the land or vein for fifteen hundred feet in length and three hundred on each side. The discoverer is allowed an additional claim. A claim is established by posting a notice of good for thirty days, and if recorded before that time will hold claim till one year from 1st day of January next following the location thereof.

Within one year after the 1st day of January next following the location each claim must be worked by the amount of stock. Failure to do such work forfeits claim. Where several claims are held by one person or company all the work for all the claims may be performed on one. Upon filing the affidavit of one of the owners and those of two disinterested parties to the effect that the labor has been performed, such claims will thereafter be considered real estate and the title shall vest in the holders against all others save the government of the United States. Miners are empowered to make local laws in relation to water rights, placer claims and townships in mining camps.

Ditches and flumes used for mining are declared real estate. Failure to use for one year after abandonment or removal from the state with intent to change residence and remaining absent one year, without exercising such right, forfeits the right of water right for mining, forfeits the claim to same. The laws relative to sale and transfer of real estate apply to ditches and flumes. Interest in placer mining claims may be conveyed by will or sale and delivery of possession on, as in case of sale of real property.

PENNSYLVANIA

Compiled by **STUDY K. MINTER**, Attorney at Law,
Wilkes-Barre, Pa.

CORPORATIONS

The constitution, in effect January 1, 1874, provides:

1. That no local or special laws shall be passed by the general assembly neither directly or by the partial repeal of general laws incorporating territory or bridge companies, except for the erection of bridges crossing streams which form boundaries between this

and other states, creating corporations, amending, renewing or extending their charters, or granting them any special or exclusive privilege or immunity, or the right to lay a railroad track, or any laws to limit the amount to be recovered for injuries to person or property, nor the time within which suits may be brought against corporations, which time is the same as that fixed by general laws for similar actions against natural persons, to wit, six years.

2. That the state may not surrender or suspend its power to tax corporations or corporate property, nor authorize municipalities or stockholders in, furnish money for or loan credit to any corporation.

3. That municipal corporations may not incur indebtedness exceeding seven per centum upon the assessed value of their taxable property, and when they do incur indebtedness, must lay a tax sufficient to pay off said indebtedness, with interest, within thirty years.

4. That a corporation is subject to the right of eminent domain and may not infringe the rights of individuals or the general well-being of the state, nor engage in any business not expressly authorized by its charter; nor hold more real estate than is necessary and proper for its legitimate business, nor issue stocks or bonds except for money, labor done, or money or property actually received, nor increase its stock or indebtedness, except in pursuance of general law, nor without the consent of the holders of the larger amount of stock, obtained at a meeting held after sixty days' notice, according to law. All fictitious increase of stock or indebtedness, and all such violations of law, shall be null and void.

5. That in all elections of directors or managers of corporations incorporated since the adoption of the constitution, each shareholder may either cast the whole number of his votes for one candidate, or divide them as he may prefer.

6. That just compensation may be given for property taken by the right of eminent domain, or taken, injured or destroyed by the construction or enlargement of the works of corporations, highways or improvements, such compensation to be paid or secured before any taking, injury or destruction, and no general assembly may not deprive any person of appeal from any preliminary assessment of damages, but on demand of either party they shall be determined by a jury.

7. Foreign corporations must have at this state at least one known office, and one agent on whom process may be served.

8. That banking laws must provide for the registry and counter signing, by an officer of the state, of all notes or bills designed for circulation, and for the depositing of ample security for their redemption, and no banks shall be chartered for more than twenty years, nor without three months previous notice, at the intended location, of the intention to apply for such charter.

9. That any association for the purpose, or any individual, may construct, maintain and regulate telegraph and other lines, and with other lines, to be regulated by reasonable and general laws, but no telegraph company may consolidate with or gain control of any competing line.

10. That the general assembly may after, revoke or amend any charter when they deem it injurious to the citizens of the state, but not so as to do injustice to the corporations, but no law enacted after the adoption of the constitution shall create, renew or extend the charter of any corporation.

11. That associations for the purpose may construct and operate railroads and connect the same at the state line with railroads of other states, and interest, connect with or cross other railroads, and may construct and transport property on other lines, and operate, without delay or discrimination. Railroads and canals must be public highways, and all railroads and canal companies common carriers. Those organized in this state must keep their books open, open to the inspection of stockholders and creditors and for the transfer of stock.

12. That undue discrimination by common carriers is forbidden, freight and passenger charges, except for commutation and excursion fares, must never be greater for any given distance than for a shorter one, and no passes shall be given to any except officers or employees.

13. That no railroad or canal company may consolidate with or gain control of any competing line, and no officers or agents may have any interest in or contract for the construction of any line.

14. That common carriers may not engage in any other business, nor hold more real estate than is necessary for their business, nor any mining or manufacturing company may own a canal or railroad, nor more than fifty acres of land.

15. That street railways may not be constructed without the consent of local authorities.

WAYS OF ASSISTANCE

CLASSES. Corporations are divided, according to the purposes of their formation, into two classes. The first class, not for profit, which may hold real estate, the yearly income whereof does not exceed \$2000, and the second class, including mining, quarrying and similar companies, for profit.

FORMATION. 1. Charters of intended corporations must be subscribed by at least five persons, three of them citizens of the commonwealth, and set forth the name, purpose, form of existence, place of business, number and names of all persons of the first year, and names, addresses and number of shares of subscribers.

2. Notice of intention to apply for a charter of the first class of the objects thereof, and the true and plain meaning of the application must be published in two newspapers of the proper county, for three weeks, and the petition acknowledged before the recorder of deeds, by at least three of the subscribers, and certified by him.

3. The petition must then be presented to a law judge and county, with proof of publication, and upon examination, approval and endorsement be recorded, with his decision of approval, in the recorder's office.

4. Certificates of corporations of the second class (except building and loan associations) must, in addition, set forth the amount of capital stock, and number and par value of shares, the name and address of the treasurer, and the fact that ten per cent. of the capital stock has been paid in cash to him; and the three subscribers making the acknowledgment shall also make an oath or affirmation, to be indorsed on the certificate, that the statements therein contained are true.

5. Certificates must next be presented to the governor of the state in the same manner in which those of the first class are presented to the judge, and in the same manner approved by him. Thereupon the parties shall appear in the office of the said corporation. The original certificate must be recorded in the office of the secretary of the commonwealth on the payment of \$50, and in the recorder's office of the proper county, and an abstract thereof furnished to the auditor-general, to be recorded in his office.

6. Purchasers at judicial sales of the property and franchises of corporations are invested with the same, on condition that said purchasers accept Article XVI of the constitution, meet and organize within thirty days of such sale, and furnish a certificate certifying the date of organization, name and other facts concerning the new corporation to the secretary of state for record in his office.

7. Executors and trustees may, with the consent of the beneficiaries, either by themselves or with others, organize second-class corporations.

RENEWAL AND AMENDMENT OF CHARTERS.—1. Charters may be renewed in the same manner in which new ones are granted, but must set forth the fact of renewal, the name of the corporation, the date of the original charter, a certificate under the corporate seal showing the consent of a majority in interest, its financial condition, its acceptance of the provisions of the constitution and the statute, and its surrender of all privileges granted by the original charter not given to corporations of its class by law.

2. First-class corporations may be consolidated and their charters amended by decree of the court of common pleas of the proper county, upon examination and approval by said court.

3. Charters of second-class corporations may be amended by letters patent, to be issued by the governor, and recorded in the office of the secretary of the commonwealth, after notice of their intention has been published in two newspapers of the proper county, once a week, for three weeks, setting forth the charter and subjects of amendment, and the original charter, as aforesaid, has been examined and approved by the governor. But the charters of gas and water companies may not be altered so as to encroach upon territory covered by any other similar company.

POWERS.—1. To have succession by their corporate name, perpetually, or for the period named in their charters.

2. To maintain and defend judicial proceedings.

3. To have and use a common seal, to be altered at pleasure.

4. To elect and remove officers, directors, and managers.

5. To appoint and remove subordinates, and arrange their compensation.

6. To enter into any obligations necessary to the transaction of their ordinary affairs.

7. To make by-laws not inconsistent with laws prescribing times and places of meeting, powers and duties of officials, and penalties for the breach of the latter, not exceeding \$20.

8. To issue certificates of stock under the corporate seal, signed by the president and countersigned by the treasurer, transferable subject to payments due thereon, with all the rights, liabilities, etc., of the original holders, but stockholders indebted to a corporation may not transfer their stock without the consent of the directors.

9. To issue preferred stock, and to issue deferred and paid-up stock in payment or exchange for real and personal property.

10. To lay assessments upon shares, not to exceed the amount at which such shares were originally sold.

11. To increase the capital stock after the amount thereof is fully paid up to the amount of \$100,000, by a vote, by ballot, of the stockholders, at a meeting held after notice published once a week for sixty days at the clerk's office, and by resolution of the board of directors. If the vote be in favor of increase, return must be made, under oath, to the auditor-general, and to the secretary of the commonwealth to be recorded in his office.

12. In case of second-class corporations, to reduce their stock or change its par value, or entirely dispose of their stock to other corporation, but no corporation, except iron, steel and oil mining companies, may buy stock of other corporations, except iron or steel companies, and no corporation, except an oil company, may take a prior mortgage, and no other corporation shall hold the majority of stock of any common carrier.

13. To borrow money, at not more than six per cent. interest, by issuing bonds, secured by mortgage, or by pledging the bonds to any amount not exceeding, except in certain classes of corporations having power to borrow to the amount of double their stock, one-half of the capital stock paid in.

14. To change, by election, the location of the principal office within the limits of the state.

15. To invest their surplus or other funds in certain specified securities. (Act of March 31, 1885, Section 1.)

16. To surrender any of their powers or to be dissolved on application and decree of the court.

17. To have special policemen appointed by the governor.

18. In case of exhibition companies, to mortgage all their property and franchises, chattel mortgages to be acknowledged, recorded and signed by the president and the treasurer, and such property and franchises be sold, the purchasers to have the same rights, etc., as the original companies.

19. In case of ship-building companies, to increase their capital stock to the amount \$3,000,000, and receive necessary property in payment therefor.

OFFICERS AND THEIR ELECTIONS.—1. Corporations must have a board of directors or trustees (one of whom must be president), a clerk, a treasurer (to give bonds), and such other officers as they choose. The directors to be elected annually, by the stockholders or members, and the time and manner of choice of directors and other officers to be regulated by the by-laws. A majority of the directors shall always constitute a quorum.

2. Officers conducting corporation elections shall take an oath and certify to the same procedure for its validation at the general election of officers of the commonwealth, and an election held by an officer not so sworn may be set aside and a new election ordered.

3. All elections must be by ballot, each share representing one vote; the stock books shall be evidence of the right to vote, and the beneficial owner be preferred to the one in whose name the stock stands.

4. In case of vacancies, in any offices, the remaining directors may fill the same till the next election.

LIABILITY OF STOCKHOLDERS.—Except in corporations specially provided for by statute, stockholders are individually liable for labor done for corporations, to the amount of the stock they hold, but only when the property of the corporation in the county is not sufficient to satisfy the claims; and holders of paid-up stock are not liable for more than six months' wages.

DAMAGES. Damages for property taken must be assessed by a jury, and the corporation must be liable for the same, upon whose award judgment shall be entered when approved by said court, but in case of failure to agree, the corporation may give a sufficient bond for the payment of damages, whereupon the right to take possession immediately vests in said corporation.

ACTIONS AGAINST CORPORATIONS.—1. Notices and process may be served upon the president or other principal officer, cashier, treasurer, secretary, chief clerk, or toll-gatherer, of any corporation, or, in their absence from the county, upon the agent, and in case of railroads, process may be served upon any manager or director.

2. Corporations having their principal offices out of this state may be sued in any county where their works or real estate are located, or in which any officer or director may reside, and process may be served on such officer or director or by publication of a copy of the process for six weeks before return day.

3. The sheriff of any county where any corporation has property or business may serve process upon such corporation in any other county.

4. In cases where judgment is rendered against a corporation, and no goods are found to levy upon, and the plaintiff suspects such corporation of having concealed its property, the court, on application, may issue a writ of sequestration, and the plaintiff may cause a citation to the officers of said corporation to answer interrogatories, and, if property be found, a writ of sequestration.

5. Writs of execution against corporations may be granted in any county, and upon franchises besides the property ordinarily subject to levy.

6. Corporations having suspended business, or made a transfer or assignment at time of or after service of process, are excluded from the statute of limitations.

MISCELLANEOUS. 1. Corporations may be restrained by injunction, in case of injury to private or public rights.

2. Any corporation failing to begin in good faith, to organize and carry on its business for the purposes for which it was created, at least one-fourth of its capital stock within two years, and to finish its works within five years, from the date of issuing the letters patent, except when the time is extended by the court, or which, after organization, neglects to use its privileges for five years, thereby forfeits its charter; and the attorney-general is bound to proceed against such corporation, except bridge corporations, on the application of any citizen.

3. All corporations of the second class, except turnpike, lodge and cemetery associations, and building and loan associations, shall pay to the state treasurer a bonus of one-quarter of one per cent, upon the amount of the capital stock, and in case of increase of such stock, the same corporations and also all first-class corporations, unless for the purpose of paying dividends, and except oil companies, may, otherwise provided by their charters, pay a like bonus on such increase.

4. The capital stock of corporations is transferable on the books, may be mortgaged, and may be divided into shares of \$100, and more than \$100 each, to be deemed personal property. And no shares are transferable until all previous calls thereon are paid, or until forfeited for non-payment thereof. In case of default in payment of subscriptions, or in case of non-payment of calls, no certificate may be given by the directors, by suit at law, of the stock of the subscribers in arrears may be rescinded by the directors. No note or other obligation given by a stockholder in arrears, and not paid, shall be valid, and no stockholder may be accepted in payment of capital stock, and no stockholder in arrears may vote at any election, nor may he vote at such election.

FOREIGN CORPORATIONS. 1. Foreign corporations of the second class doing business in this state, and having three citizens thereof as directors, stockholders, or becoming domestic corporations by having approved and recorded: 1. A certificate setting forth (a) the name, (b) purposes, (c) place of business, (d) term of existence, (e) names and residences of stockholders, and the number of shares of stock owned by each, and (f) names and addresses of those elected for the current year, (g) amount of capital stock and number and par value of the shares, (h) the legislation under which it was created, and (i) financial condition showing capital stock, and reduced paid-up stock, and cash assets, if any. 2. A certificate under the corporate seal, acknowledged and sworn to by at least three directors before the recorder of the

proper county, and approved and indorsed by the governor, showing the consent to such application of a majority in interest and to a remuneration of its original charter, and all privileges not enjoyed by second-class corporations in this state, said certificate to be recorded in the recorder of the proper county and in the office of the secretary of the commonwealth, and an abstract thereof furnished by him to the auditor-general.

2. A foreign corporation which has become domestic has the same rights, privileges, powers, immunities, lands, property and assets as the original corporation, not expressly withdrawn by general law and its certificate; and all previous claims, etc., for and against said corporations may be sued, prosecuted and collected under the laws governing the same prior to the new charter.

3. Foreign corporations may purchase real estate at judicial sales, but may not hold the same more than fifteen years.

4. Foreign glass, steel and iron companies may have factories and other necessary real estate, but except the household articles, be subject to taxation and to the same regulations as domestic corporations as to amount of capital employed, taxation of same, and the making of returns to the auditor-general.

5. All foreign corporations, except insurance companies, and those paying other taxes, not availing themselves their capital in this state, must procure annual licenses from the auditor-general, paying for the same one-quarter of one mill on each dollar of their capital stock.

6. No foreign corporation may do business in this state without an office and an agent thereon, not until it has filed a statement in the office of the secretary of the commonwealth, setting forth its title, object, location of office and name of agent, a certificate of which filing must be kept in the office of the agent for public inspection. Non-compliance with this law is declared to be a misdemeanor.

7. Foreign corporations may not hold real estate unless specially authorized by law, but may hold one hundred acres, if a corporation reside abroad does not incorporate it from holding real estate, it otherwise qualified.

8. In proceedings against foreign corporations, process may be served upon any officer, agent or engineer, either personally or by copy left at their office, and when they have an office in any county of this state, service may be had upon any officer or agent within the county.

LIFES

All buildings, mines, iron works, bridges, etc., are liable to a lien for the materials used in their erection, alteration, improvement or repair, or furnished under contract with the owner or his contractor, but no lien for repairs may be filed without notice of intention to file the same, given when the work begins, nor for less than \$20. The lien also covers the ground on which the improvement stands, and so much more contiguous as is necessary for the use of the materials supplied under a contract made with a bond, and the written consent of the owner is needed to make the claim valid. The lien takes precedence of every other in claimance attaching after the commencement of the building. If a husband erects a building on his wife's land with her knowledge or consent, it is his wife's, and for the materials must be filed against both husband and wife. To effect the lien a claim therefor must be filed in the office of the prothonotary of the court of common pleas within six months after the date when the materials were supplied under both the terms of the lien claimant, or the owner of the contract, or each test or holder of the contract was made with such person, the amount claimed, the materials furnished, the date when furnished and the prices, the locality, and such a description of the building or alterations as shall be sufficient to identify it.

The lien is enforced by the issuance of a writ of *scire facias* to compel payment by sale of the property. This may be done within five years from the time the materials were furnished, but if judgment is not obtained within five years from the issuance of the writ the lien is lost. Agreements between the owner and contractor bind subcontractors, and a stipulation that no lien shall be filed will be enforced against the contractor, but subcontractors not bound by such stipulation unless they agree to it in writing.

[NOTE. The state of Pennsylvania has no local laws respecting corporations, mines and liens for material. Some of the only acts applicable to corporations are those relating to a statement of these many and varied local laws would serve no useful purpose.]

WATER RIGHTS

By the common law every person had a right to have a mill on his own land, so long as he did not injure his neighbor and did not divert the water from its natural channel. The statute gives the owners of lands adjoining navigable rivers, creeks, etc., an outside highway, except the owners of a branch and a mill, and the right to have milldams adjoining their own lands, and lead off as much water as they need, but not so as to impede navigation of the passage of fish, nor so as to infringe private rights.

MINES

The constitution forbids the passing of any bond or special laws regulating labor of men.

CONSTITUTION. 4. Every mine must have two outlets, at least one hundred and fifty feet apart on the surface, and not more than twenty persons may work in a coal mine at one time before the second outlet is made, or after one of them has been abandoned. If more than one of said openings may be made on adjoining lands the damages to be assessed by a jury as reported by the court of common pleas. In bituminous mines worked by shaft, the said openings may be made in the shaft, but not in the shaft. In stone or anthracite mines, having an inclination of

not more than fifteen degrees, separate traveling ways must be provided, free from gas or steam.

2. Shafts and slopes must have speaking tubes from top to bottom.

3. Machinery must be fenced or protected by railing or otherwise.

4. Self-closing doors for purposes of ventilation, and safety ladders to protect miners from falling must be provided.

5. Convenient wash-houses must be provided near the entrance for the use of workmen.

6. Anthracite mines in which more than seventy-five persons are employed must be divided into two or more districts, independent of abandoned workings, in such mines and the tops of shafts must be properly fenced off, and owners of adjoining lands must leave sufficient pillars of coal in each vein on the dividing line.

IN THE CASE OF OWNERS. The owner of a mine must report progress to the mine inspectors, and to report all changes in workings which affect the safety of miners, in the anthracite coal field such reports must be made immediately, in the bituminous, once in every three months.

2. To have rules of conduct, approved by the mine inspector, posted in conspicuous places.

3. To drive bore holes in front and on sides when approaching abandoned or dangerous parts of mines.

4. To provide safety lamps.

5. To provide stretchers at the entrance of all mines. The owners of anthracite mines must provide railings in dangerous places, props and timbers necessary to the safety of miners, and in certain mines, ambulances in addition to the stretchers, moreover they must not employ anyone as a miner who does not have a certificate of competency from the miners' examining board.

MINING INSPECTORS. The anthracite and bituminous coal fields are each divided into eight districts, for each of which districts an inspector is appointed by the governor after examination and recommendation by a board of examiners appointed for that purpose. Said inspectors hold office five years in the anthracite field and ten in the bituminous.

The duties of inspectors are: 1. To examine mines and collieries; 2. To attend inquest; 3. Visit places of and investigate accidents; 4. See that all mine laws are observed; 5. Keep a record of all visits to mines; 6. Take care of maps, plans, records and other property of the state; and 7. make annual reports to the secretary of internal affairs.

BOSSSES AND FOREMEN. In all bituminous coal mines competent mining and fire bosses, and in anthracite coal mines, mine foremen, must be employed. The said mining bosses must have certificates from the mine inspector and two colliery examiners, the said fire bosses must have certificates from the inspector, and the said foremen of a coal mine must be tested and have certificates from the inspector, and the said fire bosses, miners and service men must after examination by a board of examiners appointed for the purpose.

The said bosses, foremen of a colliery, as the case may be, have the right to make workings of a mine. It is the duty of foremen and mining bosses to make, or to cause to be made, the contents of air, and make a report on the same to the inspector, or foremen and fire bosses to make daily examinations of all the workings.

In the anthracite region there must also be outside foremen, in charge of inside and outside workings.

MAINS. The owners, operators or superintendents of all mines in which more than ten persons are employed must provide mains of plank one and a half or not more than one hundred feet to the inch, ends of which must be kept at the office of the inspector, and of the colliery for the protection of miners, upon which maps and copies of changes must be noted every six months. When any part of a mine is about to be abandoned a map thereof must be prepared.

VENTILATION. Adequate ventilation, consisting of not less than one hundred cubic feet of air per minute in bituminous and two hundred cubic feet per minute in anthracite coal mines must be provided for each person employed. Abandoned mines and workings must be kept free from gas and water, as far as possible.

POWERS OF THE COURTS. Any court of equity may, on petition, grant a mine owner, his agent, or a person employed on any mine to exercise, if possible, the body of employees working in a mine.

WORKING AND BOYS. A child under the age of fifteen years, under two years of age in bituminous coal mines or in the outside workings of anthracite mines, or under fourteen years in an anthracite mine, or of female of any age in any mines, except in collieries, or in colliery work.

WAGES. Wage worker must be paid at least in money twice in each month. Mining and quarrying companies may not withhold the full wages of a miner, except in obedience to process of law, and no assignment of future wages is valid. Wages due to the amount of \$200 are a lien upon coal and personal property to the extent of the value of the same, and the wages due miners to the payment of \$10 in full, except in obedience to process of law, and no assignment of future wages is valid. Wages due to the amount of \$200 are a lien upon coal and personal property to the extent of the value of the same, and the wages due miners to the payment of \$10 in full, except in obedience to process of law, and no assignment of future wages is valid. Such claim cannot become a lien upon coal and state lands before the prothonotary's office of the proper county, within the time being, or the time of the payment of the same, or the time for the benefit of creditors may delay a claim for wages more than thirty days.

MINING AND QUARRYING COMPANIES. No mining or quarrying company may carry on any other business than that in which it is incorporated.

SOUTH CAROLINA

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CORPORATIONS.

Under the general law, two or more persons desiring to form themselves into a private corporation for the purpose of carrying on in this state any manufacturing, mining, industrial labor, immigration or other business, except for railroad purposes, may file with the secretary of state a written declaration, signed by themselves, setting forth:

1. The names and residences of the petitioners.
2. The name of the proposed corporation; the place at which it purposes to have its principal or only place of business; the general purpose of the corporation, and the nature of the business which it purposes to do.
3. The amount of capital stock, the number of shares in which it is to be divided, showing the par value of each share.
4. Any other matters which it is desirable to set forth in the organic law.

Upon filing the declaration as above the secretary of state shall issue to the parties or any two of them a commission constituting them a board of corporators, giving them authority to open books of subscription to the capital stock of the proposed company, etc.

Subscriptions to the capital stock shall be made payable in money or in labor, or in property at its money value, to be named in the list of subscription. When not less than fifty per cent of the proposed capital stock has been subscribed by bona fide subscribers, the board of corporators shall call the subscribers together, a majority of whom being present shall proceed to the organization of the company by electing a board of directors from among themselves of not less than three nor more than nine members.

The board of directors shall elect one of their number to be president or the executive officer, and such person as they may see fit as secretary. Upon the completion of the organization of the company, and the payment to the treasurer thereof of at least twenty per cent of the capital subscribed with security for the remainder of the subscription, the board of corporators shall in writing over their signature certify the same to the secretary of state, who shall issue to the corporation a certificate of incorporation, a copy of which certificate shall be filed and recorded in the office of the register of mortgage conveyances for each county where such corporation shall have a business office. The capital stock may be subsequently increased to an amount not exceeding \$500,000.

Corporations organized under this general law for mining or manufacturing purposes shall have power to construct and operate a railroad, tramway, turnpike or canal for their own use and for others, and from the tolls or other proceeds of such road to connect with some navigable stream or some existing railroad, turnpike or public highway, not to exceed ten miles in length, and shall have the right to condemn for the use of such road the right of way in lands over which the road may be laid, in reference to just compensation to the owner thereof, to be determined in the manner provided by law for railroad corporations. See *ex parte Baeot*, 158 E. Rep., 204.

Corporations organized under this general law shall cease to exist by non-user of its franchises for five years or any one year.

LIABILITY OF STOCKHOLDERS. Each stockholder in any such corporation shall be jointly and severally liable to the creditors thereof in any case, besides the value of his share or shares therein, not exceeding five per cent, of the par value of the share or shares held by such stockholder at the time the demand of the creditor was created, provided that such demand shall be payable within one year and that the proceedings to hold such stockholder liable be commenced within two years after the debt becomes due and while he remains a stockholder therein, or within two years after he shall have ceased to be a stockholder. This liability does not apply to the proceeds of stock sold in reference to any corporations in this state, a different liability has been or shall be imposed.

SPECIAL ACT, AMENDMENTS AND REPEAL. Corporations may also be organized under a special act of the general assembly. All charters under the general law and any charter granted, renewed or amended by act or joint resolution of the general assembly unless such act or joint resolution in express terms declare the contrary are subject to amendment or repeal.

PRIVATE CORPORATIONS. Every private corporation is, such has power:

1. To have succession, by its corporate name, for the period limited in its charter, and, when no period is limited, in perpetuity.
2. To sue and be sued.
3. To use a common seal, and to alter the same at pleasure.
4. To hold, purchase, lease, mortgage or otherwise dispose of, and convey, real and personal estate, as limited by its charter, and, if not so limited, such an amount as the business of the corporation requires.
5. To appoint such subordinate officers and agents as the business of the corporation requires, prescribe their duties and fix their compensation.
6. To make by-laws, not inconsistent with any existing law, for the transfer of its stock, the management of its property, or the regulation of its affairs.
7. To create, by the appropriate by-laws, a lien on the stock of any stockholder in such corporation, for such sum as the stockholder is or may be indebted to the corporation for his subscription to stock therein.

RHODE ISLAND

CORPORATIONS.

How FORMED. Corporations are created by act of the general assembly of the state; but the general assembly cannot create any corporation for any other than religious, literary or charitable purposes and it is a full law presented and another election for members of the general assembly has taken place, and after public notice of the pendency of such bill, of the purpose of such corporation, and of the place where it is intended to be established, shall be given to the petitioners, for such corporation by publication in some newspaper in the town or county for three weeks successively preceding the first Wednesday in April after the presentation of the bill to the legislature.

TAXES. Religious corporations other than those for religious, literary or charitable purposes or military or fire companies cannot be organized under the charter granted by the legislature until the petitioners for the charter pay into the state treasury \$200 and one-tenth of one per cent, upon all capital stock owned. If a corporation increases its capital stock it must pay one-tenth of one per cent, on the increase. The secretary of state is forbidden to issue any charter or copy of act creating a corporation or increasing its capital stock until he receives a certificate of the state treasurer showing that this tax has been paid. If the corporation neglects to pay its tax the state treasurer issues a distress warrant against the corporation and delivers it to the sheriff of the county, who seizes the property of the corporation under it. The same is under an execution from court.

POWERS OF. Corporations have the usual powers of having a common seal, owning and conveying property, suing and being sued, making by-laws, electing officers, providing methods for selling shares, for non-payment of assessments, and managing their own affairs.

DURATION OF. Corporations continue for the term for which they were chartered by the legislature, and for three years thereafter for the purpose of closing up their affairs.

FRANCHISE. The franchise of a corporation may be seized and sold on execution under a final judgment if the corporation be one which is entitled to collect tolls or other like revenue, and in the event of such sale the right to collect such toll passes with the franchise to the purchaser. The franchise may be redeemed within three months after such sale by payment of the purchase price with interest at twelve per cent.

TRADITIONAL STOCK. The issuing of fraudulent stock by any officer or agent of a corporation is a crime punishable by fine of not less than \$100 nor imprisonment not less than one nor more than ten years.

INSOLVENCY. If a corporation is insolvent and neglects to attend to its concerns, or its effects are in danger of being lost, or if it is doing any thing which is contrary to the public interest, the superior court may on petition of any stockholder or creditor decree a dissolution of the corporation and appoint a receiver of its property.

WAGES TO EMPLOYEES. Every corporation and city must pay the employees every week all wages earned by them up to within nine days of such payment, under penalty of fine not less than \$100 or more than \$1,000.

LIENS.

The real estate built upon, repaired or improved at the request of the owner thereof is pledged for the payment of materials furnished therefor, subject only to such incumbrances as were outstanding when the work commenced. If the real estate belongs to a married woman and the request is made by the husband, the wife's written consent must be obtained. If the person making the request be a tenant, the leasehold interest is all that can be held subject to the lien. Sub-contractors have the same right of lien as the contractors, if they give written notice of their claim to the lien to the owner, and filed same with the town clerk of the town where the land is situated within sixty days after the materials are placed on the land. Contractors must file their claim within four months after default in payment under a written contract, or within six months after the work is commenced if the contract be oral. The claim must be verified by affidavit, and must contain a description of the property on which the lien is claimed, a list of the materials furnished and to whom supplied, the name of the owner and contractor of any, the prices, the credits of any, and the amount owing. The lien must be enforced at the next term of the superior court of the county after being filed. Mortgagees, owners and all other persons interested must be made parties to the suit.

LIENS.

A lien is given upon the property, and the land upon which it is situated, to anyone who furnishes materials for the erection or repair of any building or structure or vessel, with the consent of the owner or person acting for him, for the value of such materials. If the improvement is upon a mine belonging to a married man, her consent should be obtained. Contractors must serve notice on owner, if such owner is not the purchaser, of their intention to furnish materials, specifically describing them, and that a lien will be claimed. The owner, if other than the party making the contract for improvements, may then advise, by written notice, contractor that he will not be responsible, and if he does no lien will attach. To make the lien effective a verified claim therefor, stating name of owner and contractor, containing a bill of items of materials furnished with prices, and a description of the property on which a lien is claimed, must be filed in the office of the clerk of the court of common pleas within ninety days after the materials are furnished. To enforce the lien, a suit must be commenced thereon within six months after the materials are furnished. These liens cannot affect the lien of a mortgage existing and recorded at the time of the contract.

MINING.

The statutory law refers to the management and protection of the rights and interests of the state in the phosphate rock and phosphate deposits in the navigable streams of this state and in the marshes thereof.

BOARD OF PHOSPHATE COMMISSIONERS. A board of phosphate commissioners is composed of the governor, attorney-general, comptroller-general and two citizens of the state, the last two to be appointed by the governor, attorney-general and comptroller-general. The governor is chairman of the board, and three members constitute a quorum to do business. A secretary is appointed from among the members of the board.

DUTIES OF THE BOARD. The board is charged with exclusive control and protection of the rights and interests of the state in such phosphate rock and deposits, except that the comptroller-general receives the reports of rock mined and dug and the royalty paid into the state treasury.

LIENSES. The board is authorized to grant by its citizens of the state and bodies corporate applying for the same licenses granting a general right to dig, mine and remove phosphate rock and phosphate deposits from all the navigable streams, waters and marshes of the state, and also from such creeks, not navigable, lying thereon as contain phosphate rock and deposits, belonging to the state and not previously granted. Such licenses shall be for one year, renewable at the pleasure of the board. The licensee is required to give a bond, with security, in the total sum of \$500, to the making of the proper return and payment of royalty. The board is authorized to require all licensees to make returns of the number of tons mined, and to pay a royalty to the state not to exceed six per cent on all rock and diggings mined, provided six months or more have elapsed since the royalty was last paid.

PENALTIES. Anyone mining such rock without license or buying rock so mined is liable to a fine of \$50 for every ton mined, and the vessels, driftings or appliances used by him for such purpose are forfeited to the state.

SOUTH DAKOTA.

Compiled by MARTIN & MASON, Attorneys at Law, Chicago and St. Paul, Minn.

INCORPORATIONS.

FORMATION OF MINING. Articles of incorporation must set forth:

1. Name of the corporation.
2. Purpose for which it is formed.
3. Place where its principal business is to be transacted.
4. Term for which it is to exist, not exceeding twenty years.
5. Number of directors or trustees, and names and residences of such of them as are to serve until the election of such officers, and their qualifications.
6. If there be a capital stock, its amount and the number of shares into which it is divided. These must be subscribed by three or more persons, each of whom must be a citizen of this state, and acknowledged by each before a notary public, or other officer authorized to take acknowledgments of conveyances of real property. At least two of the incorporators must also make oath that such corporation is not being formed for the purpose of obtaining several corporations to avoid the provisions of Chapter 114, Laws of 1890, declaring certain combinations of trusts unlawful.
7. Upon the filing of the articles of incorporation and antitrust oath with the secretary of state, he will issue a certificate therefor, and thereupon the person or persons signing the articles, and their successors, become a body corporate.

BY LAWS. Bylaws may be adopted within one month after the filing of the articles, and may provide for:

1. Time, place and manner of calling and conducting meetings.
2. The number of stockholders or members constituting a quorum.
3. The mode of voting by proxy.
4. Time of annual election of directors, and mode and manner of giving notice thereof and qualifications.

5. Compensation and duties of officers.

6. Manner of election and tenure of office of all officers other than the directors.

7. Suitable penalties for violations of by-laws not exceeding in any case \$500 for any one offense.

All by-laws must be certified by a majority of the directors and secretary of the corporation, and copied into a book of by-laws, and may be amended by a vote of two-thirds of the subscribed stock.

ELECTIONS. The directors of the corporation must be elected annually by the stockholders, and if no provision is made in the charter for the time of election, it must be held on the first Tuesday in June.

PLACE OF MEETING. Any mining corporation may provide in the articles of incorporation for having a business office in the state at any place within the United States, and to hold any meeting of the stockholders or directors of the corporation at such office, but every such corporation must have its main office for the transaction of business within this state, to be so designated in such articles of incorporation.

LIABILITY OF STOCKHOLDERS. Stockholders shall be jointly and severally liable in their individual capacities for all debts due to mechanics, workmen and laborers employed by the corporation, which liability may be enforced against any stockholder by action at any time after an execution against such corporation shall be returned not satisfied, provided such action be commenced within ten months, and provided that if any stockholder shall be compelled to pay the debts of any creditor, he shall be entitled to call upon all the stockholders to contribute their part of the sum paid by him, and may sue them jointly or severally, or any number of them, and recover in such action the ratable amount due from the person or persons so sued.

REPORTS AND ACCOUNTS. Every mining corporation shall annually, within twenty days from the first of January, make a report, which must be published in some newspaper published at or nearest to the place where the business of such corporation is carried on, which report must state the capital stock, and amount of the paid-up capital, the amount and nature of its indebtedness, and the amounts due the corporation, the number and amount of dividends, and when paid, and the net amount of profits. The said report must be signed by the president and a majority of the directors, and be verified by the oath of the president, or secretary, of the corporation, and filed in the office of the register of deeds of the county where the business of the corporation is carried on. A willful neglect or refusal to make and publish such report is a misdemeanor.

Upon a written request to the treasurer signed by persons owning twenty per cent of the capital stock, he must make a written statement of the affairs of the corporation, under oath, embracing a particular account of all its assets and liabilities in detail, and must deliver the same to the persons making the written request, within twenty days after such presentation, and must keep on file in his office for six months thereafter a copy of such statement, which shall at all times during business hours be exhibited to any person desiring to examine the same. If the treasurer be required otherwise than once in every six months, he neglect or refusal to furnish such statements, the treasurer shall forfeit to the persons presenting such request the sum of \$50, and the fine shall be \$10 for every day for every day after ten days thereafter until such statement shall be furnished.

FOREIGN CORPORATIONS. No corporation organized under the laws of any other state shall transact any business within this state, or acquire real estate, until it has been qualified in this state until such corporation has filed in the office of the secretary of state a duly authenticated copy of its charter, or articles of incorporation, and shall have appointed an agent residing in the county in the state where the principal business of the corporation is carried on, duly authorized to accept service of process.

A duly authenticated copy of such appointment of such agent shall be filed and recorded in the office of the secretary of state and register of deeds of the county where such agent resides.

Any state or foreign corporation, or partnership, or corporation, and to private person can raise the objection that its provisions have not been complied with.

LIENS.

LIEN MINER. Of other person, who, at the request of the owner or owners, or his or their agents, of any lode, mine or deposit, bearing gold, silver or other mineral, or of any coal bank or mine, or at the request of any contractor or subcontractor, shall perform any labor whatever on said mine, or furnish any timber, iron, nails or any other materials for timbering shafts or levels for the mine owned by the owner or owners of said mine, or shall furnish any materials for erecting any windmills, windmills, or any other hoisting apparatus or machinery, or for any car track, cars, tunnels, drifts or openings thereon, or shall perform any labor, on any tunnel, shall have a lien on said lode, mine, deposit, bank or mine, for the payment of the value of the labor so performed.

Every such miner performing any work or furnishing any materials under a contract express or implied between the owner and any contractor working on such mine may deliver to the owner or his agent a statement of the work done, and the amount of superintendence, an attested account of the amount and due of the work and labor thus performed, or of the materials thus furnished, and remaining unpaid, and thereupon such owner or agent or his agent shall be bound to pay the same to the miner, or to make payments to such contractor the amount so due, it shall be the duty of such owner to furnish such contractor with a copy of such papers, and if such contractor shall not within ten days after the receipt of such papers give such statement, he shall be deemed to waive the claim or claims, and after giving such notice, he shall be deemed to have the matter adjusted, he shall be considered as assenting thereto, and such owner or

owners may pay the same when it becomes due, and for that purpose may deduct the amount out of any moneys due such contractor. The amount which may be due from any contractor to his creditor may be recovered from said owner or owners by the owner of said contract in an action at law to the extent in value of any balance due by the owner or owners to his or their contractor under the contract with him at the time of the notice first given as aforesaid, or subsequently, according to such contract, or under the same.

Any person entitled to such lien shall make an account of the items of labor or material furnished, and after verifying the same, shall within sixty days from the time of completing such labor, or finishing the last item of material, file the same in the office of the clerk of the county or counties or wilderness in which the mine is situated; and also file at the same time a correct description of the property to be charged with said lien, and thereupon the same shall, from the time of the completion of the work, or finishing the last item of materials, and for one year thereafter, operate as a lien upon the property charged in such description. When any work or labor has been performed, or materials furnished as aforesaid under a written contract, the same, or a copy thereof, shall be filed with such account and description. All such liens shall be concurrent liens.

In all actions to enforce any such lien, all persons claiming liens upon the property charged shall be made parties, and the rights of all parties shall be determined by the court.

The foregoing lien law applies to oil wells or springs, iron and lead mines as well as to all other mines not before specified so far as the same may be applicable.

MILLDAMS.

Any person desiring to erect a milldam upon his own land, and deeming it necessary to damage by overflowing, or otherwise, real estate not owned by him, shall present to the judge of any court of record in the county a petition setting forth the place where said dam is to be located, the height to which it will be raised, the purpose to which the water power will be applied, etc., whereupon the judge shall appoint three commissioners who shall, upon notice, hear testimony and make an assessment of damages. An appeal lies from such assessment to the court aforesaid by any party interested, excepting a petitioner, at any time within thirty days from the time of the notification of the filing of the commissioners' report. The appellant shall file an appeal bond in double the amount of the assessment appealed from, in the usual terms. Upon payment of the damages assessed, judgment shall be entered declaring the right to erect and maintain a milldam according to the petition, and shall be and remain in the petitioner, his heirs and assigns forever, subject to be lost by a failure for one year thereafter to begin to build said dam and to finish the same, and apply the water power thereby created to the purposes stated in his petition, within three years; or in case the dam and dam shall be destroyed, the petitioner's right is lost by a failure to rebuild in one year after such destruction, and finish in three years, or by failure to keep such mills in operation for one year at any one time. All action for damages occasioned by the erection and maintenance of the milldam shall be brought within two years after the erection of said dam, provided that such limitation shall not run against or apply to persons living on and holding such eminent land under the prescription laws, until a patent for the land overflowed shall have been issued.

MINING.

SIZE. Mining claims shall not exceed fifteen hundred feet along the vein by one hundred and fifty feet on each side of the center thereof.

RECORD. The discoverer of a lode shall, within sixty days from the date of discovery, record his claim in the office of the register of said county in which such lode is situated by a location certificate which shall contain:

1. The name of the lode.
2. The name of the locator or locators.
3. The date of location or locations.
4. The number of feet in length claimed on each side of the discovery shaft.
5. The number of feet in width claimed on each side of the claim or claims.

6. The general course of the lode as near as may be.

Any location certificate which does not contain the foregoing requirements and such description as shall identify the claim with reasonable certainty shall be void.

MINING LOCATIONS. Before filing such location certificate, the discoverer shall first sink a discovery shaft sufficient to show a well-defined mineral vein or lode, within sixty days from the time of the uncovering of the lode.

It is further at the discretion of the discoverer on the surface a plain sign or notice, containing the first five requisites of the location certificate above given.

By marking the surface boundaries of the claim by eight substantial iron or wooden posts, the side and corner of the claim and plainly marked with the name of the lode, and the corner, end or side of the claim that they respectively represent, and sunk in the ground, or when necessary, in a monument of stone, to wit: At each end of the claim and at the center of each side, one iron or wooden post at each end of the claim.

RIGHT OF WAY. All mining claims shall be subject to the right of way of any ditch or flume for mining purposes, or of any tramway, or rock trail, provided such right of way shall not be used for a road, or for any other purpose, and shall not be abandoned prior to the establishment thereof, without consent of owners, except by condemnation.

ABANDONED CERTIFICATE. If at any time the locator of any mining claim, or his assigns, shall apprehend that his original

certificate was defective, erroneous, or that the requirements of the law had not been complied with before filing, or shall be desirous of changing his surface boundaries, or of taking in any part of an overlapping claim which has been abandoned, such locator, or his assigns, may file an additional certificate, subject to the foregoing provisions; provided that such relocation does not interfere with the existing rights of others at the time of such relocation, and no such relocation or the record thereof shall prejudice the rights of others or claimants from proving any title or titles as he or they may have held under previous locations.

ANNUAL WORK.—Requirement as to annual work is the same as that of the United States statutes.

RE-LOCATING ABANDONED CLAIMS.—The relocation of abandoned lode claims shall be by sinking a new discovery shaft, and fixing new boundaries in the same manner as if it were the location of a new claim; or the re-locator may sink the original shaft, cut or add to a sufficient depth to disclose the vein and erect new or adopt the old boundaries, renewing the posts if removed or destroyed. In either case, a new location state shall be erected. In any case, whether the whole or a part of an abandoned claim is taken, the location certificate must state that the whole or any part of the new location is located as abandoned property.

ONE CERTIFICATE, ONE LOCATION.—No location certificate shall claim more than one location, whether the location be made by one or more locators; and if it propose to claim more than one location, it shall be absolutely void, except as to the first location therein described, and if they are described together, or so that it cannot be told which location is first described, the certificate shall be void as to all.

DISPUTE IN MINING PROPERTY.—In all actions wherein the title to any mining claim is in dispute, the court or judge thereof may, upon proper application, enter an order for an underground as well as surface survey of such part of the property in dispute as may be necessary to a just determination of the question involved.

APEX AND DIP. South Dakota statutes are the same as statutes of the United States on those subjects not heretofore digested.

QUARRIES.

Quarries located on other than public lands of the United States are governed by the ordinary rules applicable to real estate.

REAL ESTATE.

Shovel, hoes, flumes, hose, pipes, railway tracks, cars, blacksmith shops, mills, and all other machinery or tools used in developing or working a mine are to be deemed attached to the mine, and are real estate.

TENNESSEE

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CORPORATIONS.

FORMATION OF.—Articles of incorporation must set forth:

1. Names of five or more incorporators not under twenty-one years of age.
2. Name of the corporation and the purpose for which it is formed.

The signatures of said five or more incorporators must be acknowledged, or any one or more signatures proved by one witness before the clerk of the county court, the fact of acknowledgment to be entered on the books of his office, and ascertained on the instrument, which instrument with the application, the acknowledgment or probate, shall be registered in the register's office of the county where the main office of the corporation is to be conducted, the effect of registration to be by the register indorsed on or attached to said instruments. The said instrument, registered as aforesaid, shall then be transmitted to the secretary of state, who shall copy the same in a book to be kept for that purpose, with the probates, acknowledgments, certificates of clerk, register, etc. The secretary of state shall then certify in the original instrument that the same has been registered in his office, to which certificate shall be affixed the great seal of the state, and upon the filing of the great seal of the state to said certificate or said original instrument, and the registration of said secretary's certificate and the fact same of said seal in the register's office, where said instrument was originally registered, the incorporation of the association as a body politic and corporate is hereby declared complete, and the validity of the same shall not be in any legal proceeding collaterally impeached.

BY LAWS. Corporation may by its laws make regulations concerning the subscription for or the transfer of stock by upon the amount of capital to be invested in the enterprise and the division of the same into shares.

TRUCKS, BONDS, ETC.—The board of directors shall be elected by the vote of each and every stockholder owning one share representing a vote. The term of all officers may be fixed by by-laws, the same, however, not to exceed two years.

TRUCKS, LIABILITY OF.—No form of money shall at any time be made to any stockholder, and any such bill shall render the directors consenting thereto individually liable for the same thereof. If the indebtedness of said company shall at any time exceed the capital stock paid in, the directors consenting thereto shall be individually liable to the creditors for said company. If the directors declare and pay any dividend when the company is

insolvent, they shall be jointly and severally liable to creditors for the amount of dividend thus declared. But any director may avoid liability by voting against the dividend or by filing his objection in writing as soon as he ascertains the dividend has been made.

PLACE OF MEETING. The stockholders may by three-fourths majority change, direct and appoint the time and place at which all subsequent meetings shall be held.

STOCKHOLDERS. LABORERS, &c. Stockholders are severally liable individually at all times for all moneys due and owing to the laborers, servants, clerks and operators of the company, in case the corporation becomes insolvent.

FOREIGN CORPORATIONS. Every foreign corporation desiring to carry on its business in this state must first file in the office of the secretary of state a certified copy of its charter or articles of incorporation, and also a copy of its by-laws, which must be recorded in the office of the register of each county in which such corporation proposes to carry on its business. To acquire any funds, then, they shall be deemed to be corporations of this state. The assets of such corporations shall be distributed in this state shall have the priority in the distribution of assets over all simple contract creditors being residents of any other country or country. And also of all judgment creditors for all debts which have been made by such corporations, and also of all judgments. Upon the failure of any such corporation to commence in good faith to develop and work some portion of its property in this state, the state may, by its courts, take possession of all right and title to such land, lease and become the owner thereof.

11155

All employees and day laborers of any corporation have a claim on the employer's property for wages or compensation in arrears for three months. This lien is enforceable by attaching to or otherwise seizing the property of the employer. If proceedings to enforce do not begin within three months from the time the lien attached, it will be lost. The rights of bona fide purchasers and persons having valid claims on the time proceedings are begun, are superior to the lien of employees. They shall not be compelled to purchase goods from their employer's store.

A lien is given to whoever furnishes materials, by virtue of a special contract with the owner, for the construction or repair of a house, or the furnishing or erection of fixtures, machinery or improvements. If the contract be made with the majority of vendors who hold subject to a vendor's lien, and the material, erected or furnished, do not exceed the amount of the lien notified in writing, the lien on the material will take priority of the vendor's or vendors' lien. If the material be furnished for an improvement on lands owned by a married woman, the contract must be in writing and signed by her, or else the material man will have no remedy save to remove the building after ten days' notice. The lien on the material is not affected by the loss of or land on which it is constructed, and takes precedence of all other encumbrances created after the material is furnished. Subcontractors must notify the owner in writing, within thirty days after the material is furnished, that a lien is claimed, and thus will continue to have the same priority as the owner's lien. The lien is lost by statement of the material furnished be filed with the county register and by him recorded in the "trust book." The liens of subcontractors can in no case exceed the amount which the owner is obligated to pay the original contractor. When of the original contractor's contract is not paid in full, and until the final cost of a building is ascertained, the lien of the subcontractors will extend to the entire amount of the contract, and the county where the building or improvement is situated.

MULLIGAN

The county court of each county has control of the collection of milldams under such conditions, restrictions and limitations as in its discretion may seem proper. No county court can permit a milldam to be so constructed as to intercept or in any way impede or impair the navigation of such streams as are national highways, or as have been declared to be so by law.

Any person desiring to construct a milldam shall present a petition to the county court of the county where the dam is to be built on the first day of a regularly session setting forth the nature and object of the dam.

If the petitioner is not the owner of the land on both sides of the stream, his petition shall be accompanied by the written consent of the owner or owners of the land which consent shall be proven by two witnesses to the same. Notice of the intent to present the petition shall be set up at the door of the court house at the time and place which is appointed for the next session of the court, and the court shall at that time determine upon the application and fix the term of time for which the right of privilege shall be enjoyed.

WATER RIGHTS. A stream is navigable in a legal sense when it is capable in the ordinary course of the water of being navigated both ascending and descending by such vessels as are used in commerce. A stream is not navigable in a legal sense when it is not capable in the common acceptance of the term, as when in certain stages of the water it may have sufficient depth for flatboats, rafts or vessels of light draft. If a stream is not navigable in a legal sense, the riparian owner's title extends to the low water mark of the stream. The bed of the stream as well as its use is open to the public. If a stream be navigable in a legal sense, the riparian owner's title extends to the high water mark of the stream, and the public has no use in it for the purposes of transportation and commercial intercourse. If the stream be not navigable, the riparian owner's title extends to the bed of the stream, with a right of property and control of water.

The owner of land through which a non-navigable stream passes may turn the water from its channel for his uses, provided he returns it to the channel before it leaves his land. And such a person may have an action against an owner below him on the stream for interrupting such use of the water by erecting a dam so as to overflow his property. A right to permanently overflow the land of another is a hereditament, and a conveyance of sale thereof must be in writing.

NUISANCES.—It is a public nuisance to obstruct or impede without legal authority the passage of any navigable river or collection of water. It is a public nuisance to corrupt or render unwholesome or impure the water of any river or stream or pond to the injury or prejudice of others.

MINING.

RIGHTS AND POWERS.—SPECIAL. Mining corporations shall have the authority to condemn the right of way necessary for the transaction of the corporate business, not exceeding thirty feet in width, and to sell the same, subject to the approval of the board. All mining corporations, three-fourths of the stock being represented and cast in the affirmative, may subscribe for, purchase, sell, lease, convey, mortgage, hypothecate, or otherwise dispose of the bonds of said railroad or to be used by them in carrying on their mining operations. For the purpose of raising the money to purchase, sell, lease, convey, mortgage, hypothecate, or otherwise dispose of the bonds of said railroad or to issue company mortgage bonds, said mining companies are authorized to mortgage their lands, mines and estates, both real and personal, to secure the payment of

STATEMENT ASSAULT. Annually during the month of January, the president shall make and publish in a newspaper printed in the county where the principal office of business is located, or, if no newspaper is printed in that county, then in an adjoining or the nearest county where a newspaper is printed, a sworn statement, showing the amount of capital stock and the existing liabilities and a list of names of the stockholders. The making of a false statement to be printed in a newspaper shall constitute a misdemeanor, excepting that it shall not be a crime if the person defaming or trading with said company on the truth of said fraudulent statement.

INSPECTOR OF MINES.—One mine inspector for the entire state shall be appointed by the governor of the state, whose term of office shall be four years. He shall be a practical miner of not less than five years of experience in mining, having a full and complete knowledge of the laws relating to mining, and of the mining claims and interests in the state, and of the nature and properties of all known mines in said mines. The office of the inspector shall be kept in the city of Chattanooga, together with all maps and plans of all mines in the state, and he shall be required to make a report to the governor on or before the 1st day of January make a report to the governor of the state of the condition and operation of the mines in the state. Said inspector shall inspect all mines that are being worked in the state, and shall make a report to the governor by or before the 1st day of January of the state of any serious accident that should occur in said mines, the agent or person operating the same shall immediately notify the inspector, if any deaths or serious injuries have occurred in said mines, and the inspector shall summon a jury to inquire into the cause of the death, and who shall make a report of the result of the inspection. Thereupon the inspector shall investigate the matter and take such

MAPS or MIXES. The agent or owner of every contour shall furnish an accurate map of the plan of workings of said mine to the inspector. On the 1st day of January and date in every year a statement of the plan of the progress of the workings of the mines shall be furnished said inspector. The penalty for furnishing false maps or plans shall be not less than \$100 nor more than \$500.

ON THE USE OF ESCAPES.—There shall be at least two separate outlets separated by natural strata not less than one hundred and fifty feet in length, by which shafts or outlets distinct means of ingress and egress are always available to the persons employed in the mines.

VENTILATION. The owner or agent of every such mine shall provide an adequate amount of ventilation and so less than fifty feet cubed per second of pure air for every fifty men at work, and as much more as circumstances may require. The intake of air may be modified by any pumps or other appliances, but there shall be sufficient free used inside of the mine where the coal banks and chutes are built directly over and covering the top of the shaft, so that the air can move freely upward.

MINING BOSS. Every agent or owner of coal mines, his employees, a competent and practical mine doctor, who shall keep watch over the ventilating apparatus, etc., and a training personnel to the safety of the miners. It is his duty to increase the ventilation at least once a week and report to the inspector once a month.

SIGNALING. FILES, ETC. The owner or agent of every wind-
mill shall employ suitable apparatus, such as bells, from top to
bottom of the shaft and safe machinery for lowering or hoisting
millwheels.

CHILD WEDDINGS.—At the funeral, a majority of those present at a meeting called for that purpose, held the right to marry was not withheld, who should be permitted to do so, but to be present at the wedding, if one should wish, and to have the priest say a few words, and then go on, and say, "be ye one flesh."

FURTHER DUTIES OF CHECK-WEIGHMAN.—He shall credit each miner with all merchantable coal or other minerals mined by him, on a proper sheet or book kept by him for that purpose. When differences arise between the checkweighman and the agent of the mine, the same shall be referred to the mine inspector or to the district, who shall settle the matter.

PENALTIES FOR FAISE WEIGHING.—Should any weighman, agent or checkweighman knowingly or willfully adopt or take more or less pounds for a bushel or a ton than is now provided by law, willfully neglect the balancing or examining of the scales, or ears or willfully weigh coal with an incorrect scale, he shall be guilty of a misdemeanor.

QUARRIES.

THE FORMATION OF QUARRYING CORPORATIONS.—The charter granted to quarrying corporations and their general powers are similar to those granted to mining corporations. The regulations with reference to liabilities of stockholders and directors, the publication of statements, liabilities for false statements, capital stock, condemnation of property for right of way, place and time of meeting, are the same as in the case of mining corporations, the only difference being the power of a mining and quarrying corporation being that the power to subscribe or purchase stock in any railroad company is withheld from quarrying corporations.

WAGES.

All persons, firms, companies or corporations engaged in mining coal, or any other mineral shall pay their laborers and employes the amount due them for their work in lawful money of the United States or by cash orders, and shall adjust accounts at least once in every thirty days. It shall not be lawful for them to issue for payment of labor any order or other paper whatever, unless the same purports to be redeemable for its face value in lawful money of the United States by said person, company or corporation.

TEXAS

CORPORATIONS.

Corporations are either public or private. A public corporation is one that has, for its object the government of a portion of the state. Private corporations are of three kinds. First, religious, second, corporations for charity or benevolence, and third, corporations for profit.

CREATION OF CORPORATIONS.—Private corporations may be created by the voluntary association of three or more persons for the purposes and in the manner hereinafter mentioned. The purposes are almost anything which is not unlawful. A charter must be prepared setting forth

1. Name of corporation.
2. Purpose for which it is formed.
3. Place or places where its business is to be transacted.
4. Term of its existence.
5. Number of its directors or trustees and the names and residences of those who are appointed for the first year.
6. Amount of its capital stock, if any, and the number of shares.
7. The charter of a bridge or ferry company shall also state the stream to be crossed.
8. The charter of a coal company must also state. First, the kind of road intended to be constructed, second, the places from and to which the road is intended to be run, third, the counties through which it is intended to be run, fourth, the estimated length.

It must be subscribed by three or more persons, two of whom, at least, must be citizens of this state, and must be acknowledged before some officer authorized to take acknowledgments of deeds. Such be filed in office of secretary of state, recorded and kept in his office, a copy thereof under state's seal shall be evidence of the corporation, its existence dates from date of filing. Corporations may amend or change their charters by causing the amendments or changes to be authenticated as original charters, and filing with secretary of state, etc., which amendment or change dates from filing. The original purpose of charter can not be changed by amendment, and must not be contrary to the constitution or laws of this state.

All charters of amendment or to charters, under this chapter, 2, title XX, shall be subject to the power of the legislature to alter, reform or amend the same.

Fees for charter, or amendment or supplement thereto, of a private corporation for religious, literary, benevolent or scientific purposes, \$10; for any other purposes, \$25; except railroad or telegraph companies, which pay a fee of \$500, paid at time of filing charter.

GENERAL POWERS AND DUTIES OF PRIVATE CORPORATIONS.—Every private corporation has power

1. To have successors in its corporate name for the period limited in its charter, not to exceed fifty years, when no period is limited, for twenty years.
2. To maintain and defend judicial proceedings.
3. To use a common seal.
4. To hold, purchase, sell, mortgage or otherwise convey such real and personal estate as the purposes of the corporation shall require, or to secure any debt or liability due or belonging to the corporation.

5. To appoint and remove subordinate officers and agents, and to allow them suitable compensation.
6. To make by-laws, not inconsistent with existing laws.
7. To enter into any obligation or contract essential to its business.

8. To increase or diminish the number of its directors or trustees, to be not less than three nor more than thirteen, by vote of stockholders.

May increase its capital stock to not exceeding double the amount of its authorized capital, which shall be certified to secretary of state.

May borrow money, issue bonds or notes therefor and pledge the property and income of the corporation. May open books for subscription of stock within three months from filing charter, after giving thirty days' notice in a newspaper published or generally circulated in the places where books are to be opened.

A majority of the stockholders or trustees shall constitute a quorum to transact all business. Annual elections of directors or trustees, to be held at such times and places as by-laws direct, who shall of their number choose a president, and shall appoint a secretary and treasurer and such other officers as deemed necessary.

Directors or trustees may adopt by-laws, which may be altered or changed by majority vote of stockholders, at any election or special meeting for that purpose by the directors or trustees on written application of majority of stockholders or members.

Elections, if not held on day appointed, may be held on any other, as per by-laws.

Books shall be kept wherein are to be recorded all business transactions, and open to inspection of all stockholders. And when required by one-third of the stockholders, shall report in writing to the stockholders the corporate affairs, as stockholders, dividends, etc. The stock deemed personal estate and transferable only on books of corporation, as by-laws declare. Board of directors may require the subscribers to the capital stock to pay amount subscribed, as may be required by the directors. Stock payments after being notified.

Directors who pay any dividend when its payment would render the corporation insolvent shall be jointly and severally liable for all debts of the corporation to the extent of the dividend so paid. But any director who shall file his objections to such payment shall not be so liable. Principal officer to be kept in this state.

LIABILITY OF STOCKHOLDERS.—If there is no property of the corporation to be found, execution may be issued against stockholders to the extent of unpaid stock, etc.

Whenever any banking, mercantile or other business firm desires to become incorporated without a change of the firm name, such firm shall, in addition to the notice of dissolution required at common law, give notice of such intention to the secretary of state, to be filed by him for four successive weeks in some newspaper published at the seat of government, and in the county in which such firm has its principal business office, if there be a newspaper in such county, and if not, then in some adjoining county, and no change shall take place in the liability of such firm or the members thereof.

FOREIGN CORPORATIONS. That any corporation organized or created under any other state or territory, or any foreign government, desiring to transact business in this state, is required to file with the secretary of state a duly certified copy of its articles of incorporation, when such secretary shall issue a permit to such corporation to transact business in this state.

No such corporation can maintain any suit at law or equity, in any of the courts of this state upon any demand, whether arising under contract or tort, unless at the time such contract was made, or tort committed, the corporation had filed its articles of incorporation with the secretary of state to procure its permit.

Such corporation shall, if its capital stock be \$10,000 or less, pay a fee of \$10; if more than \$10,000 and less than \$50,000, a fee of \$20; if more than \$50,000 and less than \$100,000, a fee of \$30; if more than \$100,000, it shall pay a fee of \$50.

No permit shall be issued for a longer period than ten years.

The original permit or certified copies thereof shall be evidence of the compliance of said corporation with the requirements of this act, and the secretary of state that any such corporation has failed to file in his office its articles of incorporation shall be evidence that such corporation has in no particular complied with the requirements of this act.

The provisions of this act shall not apply to corporations created for the purpose of constructing, building, operating or maintaining any railway, or to such corporations as are required by law to procure permits to do business from the commissioner of agriculture, insurance, statistics and history.

LIENS.

Mechanics, contractors, builders and material-men have a lien on the improvements made by them, and on the land on which they stand, for their debt, and may fix and secure the lien upon said property, by filing the contract and having it recorded in the county clerk's office within six months after it becomes due, if the contract is verbal, other formalities are required. In the case of homestead no lien is allowed unless confirmed in writing and the consent of the wife is given as required in case of divorce of the homestead.

Persons performing labor in the construction or repair of rail roads or their property, or in the operation of a railroad, have a preferred lien upon such railroad and its equipments for their wages. Keepers of hotels and boarding houses have a lien on baggage and all property deposited with them for their bills.

office, which certificate, with a copy of the articles of agreement and oath, certified by him, must be filed in the office of the secretary of the territory, who shall issue, under seal of the territory, a certificate to that fact, and these proceedings and certificate shall be sufficient to constitute the association a body corporate with succession, and the latter certificate, or a certified copy thereof, shall be evidence of the incorporation.

POWERS OF. Corporations so created are authorized to exercise the usual powers of business corporations, use a common seal, to buy, hold or sell such real estate as may be necessary to their business, or to follow their business, to make by-laws, to increase or diminish the capital stock by formal proceedings.

Corporations may have the right to own and the power to buy and sell real estate as a business to the extent of the limitation imposed by Congress.

FALSITY. The omission to make the proper entries, or the making of false and fraudulent entries by the secretary or person in charge of the books, with intent to deceive or defraud, is declared to be forgery and punished as such.

EMPLOYMENT. Any officer, director or employee of a corporation, who, with intent to defraud, is guilty of any act which is prohibited by law, is liable to be removed and punished as such.

FOREIGN CORPORATIONS. Foreign corporations may enter into business in this territory, but all such corporations are required to

Within sixty days to file with the secretary of the territory, and also with the probate judge of the county wherein the principal office of the territory is situated, certified copies of the articles and a certificate of incorporation by law, and in case of alteration and amendment of said articles or by-laws thereafter shall file certified copies of such alteration or amendment with each of said officers, within thirty days after their adoption.

Such corporation shall also, within thirty days after entering business, designate some person, residing in the county in which its principal place of business in the territory is situated, upon whom process may be served, and shall file such designation with the probate judge and secretary of the territory.

Any corporation failing so to comply shall not be entitled to the benefits of the laws limiting the time for the commencement of civil actions.

TAXES. The property of all corporations for pecuniary profit is subject to taxation, the same as that of individuals.

SHARES OF STOCK IN CORPORATIONS are not taxable when the property of the corporation is taxable.

SPECIAL PROVISIONS. Our laws contain special provisions for banking, domestic, foreign, railroad, telephone, insurance, irrigation, loan, trust and guarantee associations, and building and loan associations.

There are no special territorial laws in regard to quarrying or in regard to milldams.

LENS.

All persons who shall do work or furnish materials for the working or development of any mine, lode, mining claim or deposit yielding metals or mineral of any kind, or for the working or development of any such mine, lode or deposit, so worked or developed, or of any such mine, lode or deposit, shall be deemed to have worked or furnished materials upon any shaft, tunnel, incline, adit, drift or other excavation, designed or used for the purpose of draining or working any such mine, lode or deposit, are entitled to the benefit of the ten laws of this territory.

The lien shall attach in every case to such mine, lode and deposit, and to such shaft, tunnel, incline, adit, drift or other excavation, though such shaft, tunnel, incline, adit, drift or other excavation be not within the limits of such mine, lode or deposit, provided that when two or more such mines, lodes or deposits owned or claimed by the same person or persons shall be worked through a common shaft, tunnel, incline, adit, drift or other excavation, then all such mines, lodes or deposits so worked shall, for the purpose of this act, be deemed one mine, and provided further, that this section shall not be deemed to apply to the owner or owners of any mine, lode, deposit, shaft, tunnel, incline, adit, drift or other excavation, but only to the person or persons who do work or furnish materials for the purpose of this act.

The lien shall likewise attach to rights of water and rights of way that may in any manner pertain to any kind of property heretofore specified and to which such lien attaches. In case of corporations such lien shall attach to all the franchises and charter privileges that may in any manner pertain to said specified property.

NOTICE OF LIEN. Any party claiming a lien shall file in the office of the recorder of the county wherein said land is situated, a statement containing:

1. A notice of intention to hold and claim a lien.
2. A description of the property to be charged therewith.
3. A verified abstract of indebtedness showing the whole amount of debt, the whole amount of credit, and the balance due to be become due.

The principal contractor must file such statement within sixty days after the time when the last work shall have been done or the last material furnished. A sub-contractor must file such statement within forty days.

A notice of intention to hold a lien may be filed before the work is commenced or material furnished.

The principal contractor must serve a copy of notice on the owner.

RECOVERY OF DEBTS. No action shall be maintained for the recovery of real property in the possession thereof, unless it appears that the plaintiff, his ancestor, grantor or predecessor was seized or possessed of the premises in question, within seven

years before the commencement of such action; and this includes possessory rights in lands and mining claims.

RIGHTS OF WAY AND EASEMENTS. The legislature of the territory by an act approved March 12, 1890, provided for rights of way and easements for the development of mines.

Such right may be secured by petition and hearing in the district court, and on payment of the damages assessed therein. This act contains a provision preventing injury to land through which such right of way passes and providing for the construction of safe crossings, etc., and for keeping same in good repair.

SCHOOL OF MINES. The legislature of the territory has established a chair of geology and mineralogy in the territorial university "to form the basis of a future school of mines."

TRANSFERS. All transfers of mining claims are made by deed as in case of lands.

COAL MINES. All coal mines in which more than ten men are employed in each twenty-four hours shall be provided with an escape shaft, slope or tunnel for the purpose of securing the safe egress of workmen in case of danger. Punishment for failure to comply with this law is \$1,000 fine, or one year in the penitentiary.

MINES AND MINING.

MINING CLAIMS. Discovery and appropriation are the sources of right to mining claims on the public mineral lands, and development of continuing value.

EXTENT OF GROUND OPEN FOR LOCATION. The locator may claim fifteen hundred feet along the vein or lode, and three hundred feet on each side of the middle of the vein or lode at the surface. See Conn. Laws, Sec. 2790.

HOW LOCATED. The location shall be along the vein or lode, and it shall be distinctly marked on the ground so that its boundaries can be readily traced, and the record shall contain such description by reference to some natural object or permanent monument as will identify the claim. The notice of location must be recorded with the mining recorder of the mining district in which the claim is located, and if the claim is not located in an organized district, or if there is a vacancy in the office of the recorder of any mining district, then with the county recorder of the county in which such claim is located.

WORK (ANNUAL). Assessment work to amount of \$100 must be performed annually on lode claims. (No territorial law.)

DEVELOPMENT. Development right not attached to mining claims. **EXTENT OF.** Copies of notice of location of mines, lodes and veins and of tunnel sites recorded in the several mining districts, and of the mining rules and regulations in the several mining districts, are made prima facie evidence of such notices, rules and regulations, provided they are properly certified.

In actions respecting mining claims, proof must be adduced of the customs, usages or regulations established and in force at the bar, diggings or camp embracing such claim; and such customs, usages or regulations, if in conflict with the laws of this territory, or of the United States, must govern the decision of the action.

FRAUD. Fraudulently procuring sales of mining claims by false certificates of assays, etc., is a misdemeanor.

VERMONT

Compiled by J. W. RUSSELL, Attorney at Law, Burlington, Vt.

CORPORATIONS

FORMATION. Corporations are formed for the purpose of carrying on manufacturing, mercantile, mechanical, mining or quarrying business by articles of private association. They are as follows:

"When the subscribers, hereby associate ourselves together as a corporation, under the laws of the State of Vermont, to be known by the name of _____, for the purpose of _____, at _____ in the county of _____, in said State, with a capital stock of _____, divided into _____ shares of _____ dollars each, dated at _____, this _____ day of _____, A. D. _____."

Such articles of association, signed by the corporations, are filed with the secretary of state, and a certified copy thereof printed in a newspaper in the county.

The corporation is managed by not less than three directors, who shall be stockholders, and one at least shall reside in Vermont. They shall be annually chosen at such time and place as by-laws, profile and order of the corporation may require, and appointed. They appoint one of their number president, and appoint a clerk and treasurer. The clerk shall be a resident of the state. A majority of directors constitute a quorum when convened according to the by-laws. A majority of stockholders at a meeting may transfer business to the hands of the holder to one vote. Directors paying a dividend, knowing the corporation to be insolvent, are personally liable for debts due from the corporation.

The capital stock shall not be less than \$500 nor more than \$500,000, the shares not to exceed 800 each.

LIMITS OF DIRECTORS AND STOCKHOLDERS. One half the stock must be paid in before debts are contracted, and no

part of it shall be withdrawn or diverted from the proper business of the corporation. Directors consenting to an indebtedness in excess of two-thirds of capital stock paid in are personally liable for the excess. Stockholders are individually liable to creditors of the corporation to an amount equal to their amount of stock, until the whole amount of stock fixed by the company is paid in. If the capital stock is withdrawn or refunded while debts are owing, each stockholder is personally liable to the creditors to the amount he receives.

The clerk shall keep in the town where the corporation is located and in his original file a book containing a record of articles of the association, number of shares held by each, amount paid in by each, the time when they became owners, and a record of transfers. All books of the corporation to be subject to inspection of the stockholders at the annual meeting and at other suitable times.

LIES. The corporation has a lien on the stock of its members for debts due from them to the corporation.

The legislature retains the privilege to vacate or amend the powers of the corporation for misfeasance.

FOREIGN CORPORATIONS. There are no statutes relating to foreign corporations engaged in manufacturing, mercantile, mining or quarrying business or any such business, as to the method of their carrying on doing business in the state, and they are allowed to do business without interference or regulation. This does not apply to insurance companies or banking institutions.

LIES.

Persons performing labor or furnishing material in building, repairing, fitting or finishing a ship, vessel or steamboat have a lien on the same for six or eight months, and may secure same by attachment, which shall have precedence of all other claims. A person erecting, repairing, moving or altering a building or furnishing labor or materials thereon shall have a lien to secure payment thereon on such building and the land on which it stands, which lien continues in force three months, but does not take effect until a memorandum of the claim is recorded in the town clerk's office of the town where the real estate is situated. It does not avail sub-contractors and does not take precedence of any former mortgage of lien.

EMPLOYEE'S LIEN. When a person or company is compelled to stop business by reason of attachment and does not resume in thirty days, and is indebted to an employer for wages, such employer has a preference to the amount of \$20, and his attachment will take precedence of others to secure that amount. In insolvency his claim to that amount is preferred.

EXEMPTIONS. Manufacturing establishments and quarries and mines when not opened, including buildings and machinery used in the process of the business, shall be exempt from taxation for five years by a majority vote of the legal voters of the town or city where the same is situated.

MINING AND QUARRYING.

There is no legislation on Vermont relating to mining and quarrying exclusively, but no other general legislation affecting those matters.

VIRGINIA

Compiled by FRED CARL JOHNSON, Attorney at Law, Christiansburg, Va.

CORPORATIONS.

FORMATION OF. The legislature may grant charters for any purpose. The extent and corporation counts and makes the report in vacation, may grant charters to five or more persons, who enter to form a joint stock company for the conduct of any enterprise or business, which may be lawfully conducted by an individual or by a body politic or corporate, except to construct a turnpike to be constructed beyond the limits of the county, or a railroad, street, railway or canal, or to establish a bank or corporation. Application for incorporation of every charter, to be given by five or more persons, and acknowledged by them before a justice, notary, judge or clerk, and must set forth:

1. The name of the company.
2. The purpose for which it is formed.
3. Capital stock and its division into shares.
4. Amount of real estate proposed to be held.
5. The place at which principal office is to be kept.
6. The chief business to be transacted.
7. The names and residences of the officers who for the first year are to manage the affairs of the company.

This certificate must be presented to the clerk of the corporation of the county or city in which the principal office is to be, who may grant, amend or refuse the charter.

WHILE INCORPORATED. If granted, the charter must first be recorded in the charter book of the court, and then certified to the secretary of the commonwealth, who also records it.

TAX. A tax of one cent on every dollar of capital stock, when granted by a legislature, court of judge, before it is operative or effectual for any purpose whatever. The fee is graduated according to maximum capital stock. If maximum does not exceed \$500,000, fee is \$5; from \$500,000 to \$1,000,000, fee is \$10; over \$1,000,000, fee is \$15; over \$2,000,000, fee is \$20; over \$2,000,000 to \$3,000,000, fee is \$25; over \$3,000,000 to \$4,000,000, fee is \$30; over \$4,000,000 to \$5,000,000, fee is \$35; over \$5,000,000 to \$6,000,000, fee is \$40; over \$6,000,000 to \$7,000,000, fee is \$45; over \$7,000,000 to \$8,000,000, fee is \$50; over \$8,000,000 to \$9,000,000, fee is \$55; over \$9,000,000 to \$10,000,000, fee is \$60; over \$10,000,000, fee is \$70.

maximum is named in charter, fee is \$200. Company cannot organize until copy of charter is lodged with secretary of commonwealth.

HOW STOCK PAID FOR. Two dollars per share shall be paid at time of subscription, and the residue as required by the president and directors.

MEETINGS. Annual meetings of stockholders are required. The time may be fixed by charter or by the stockholders at general meetings. Either the board of directors or stockholders owning one-tenth of the capital stock may call a general meeting at any time by publication for thirty days in some newspaper published in the place or in some newspaper to be designated.

ELECTIONS. President and directors are elected by stockholders, except so far as named in the charter, or to fill a vacancy, which last the directors may do. They can receive no compensation, unless authorized by the stockholders.

BOOKS AND REPORTS. The board of directors is required to have regular books of accounts kept and balanced annually or semi-annually, and to make annual reports to the stockholders of the receipts, disbursements and condition of the company.

LIEN ON STOCK. The persons in whose name the shares stand on the books of the company are deemed the owners, as it regards the company. Dividends shall be applied to any indebtedness of stockholder to company. Stock is not assignable without company's consent until all assessments have been paid. When assigned, assignor and assignee are both liable for past and future assessments. Are not liable for more than their subscriptions.

DIVIDENDS. Directors required to declare semi-annually dividends of so much of net profits as they deem it prudent to do. They are personally liable to company's creditors if they declare a dividend of any part of the capital stock.

POWER TO RE-ORGANIZE. Charters granted by the legislature are forfeited if the company does not organize in two years from passage of the charter, or if after organization it suspends its operation for two years.

BY LAWS. Company may adopt any which are not inconsistent with charter or the general laws of the state.

LIEN ON PROPERTY. No corporation can plead insolvency.

LIABILITY. Charters of mining and manufacturing companies expire thirty years after their date.

ASSIGNMENTS AND INCUMBRANCES. Any lien or incumbrance on its work or property, created by any company chartered by a court of judge, for the purpose of giving a preference to any creditor, except to secure a debt contracted or money borrowed at the time of the creation of the lien or encumbrance, shall entitle to the benefit ratably of all the creditors of the company, and they may enforce the same.

OFFICE. Every company incorporated by this state or by another state, and doing business in it, except insurance companies incorporated by another state, must have an office in this state at which claims against it due residents can be audited, settled and paid.

LIEN ON REAL ESTATE. Every company incorporated by another state is required to record in the county where its office is, and also to have transmitted to the secretary of the commonwealth, its charter and a power of attorney appointing some person residing in such county an agent on whom all legal process against such company may be served. All mining and manufacturing companies chartered elsewhere can do business in this state and acquire, lease, sell, mortgage, convey, hold and estate of interests therein and personal property suitable for their business, except they cannot at one time hold more than ten thousand acres of land in any one county. Such companies must first be required of companies chartered in the state before they can do business here.

LIES.

LABORER'S LIEN. All clerks, mechanics and laborers who furnish the services of labor to any mining or manufacturing company, no matter whose charter it shall have a prior lien on such franchises, assets, earnings and on all the real and personal property of such company when engaged in operating, to the extent of the money due them for such supplies, but such wages, and no mortgage, deed of trust, sale or hypothecation of conveyance executed since March 21, 1877, shall defeat or take precedence over such lien.

SUPPLIES LIEN. All persons furnishing supplies to a mining or manufacturing company, necessary to the operation of the same, shall have a prior lien upon the personal property of such company, and also a lien upon the real estate, to the extent of the money due them for such supplies, and also a lien on all the estate, real and personal, of such company, which said last lien, however, on all such real and personal estate, shall be subject and inferior to any lien by deed of trust, mortgage, hypothecation, sale or conveyance made or executed and duly admitted to record, prior to the date at which said supplies are furnished; provided, however, that the lien to parties furnishing supplies shall be superior to that due clerks, mechanics and laborers, but services furnished as aforesaid.

HOW LIEN PERFECTED. No person shall be entitled to such lien unless, within ninety days after the supplies are furnished or labor done, he file in the clerk's office of the county or city where the indebtedness is incurred, a duly acknowledged copy of the amount and consideration of his claim, and having the same recorded.

MINING. No person shall open, sink, dig, excavate or work in any mine or shaft on land containing coal, sulphur or other mineral estate, or of the bed or strata of any such mine, land or strata, without the written consent of every person having any interest in the whatever in the adjoining land. A person violating this provision forfeits \$25 to anyone who may sue him therefor.

The owner or tenant of any land on which a coal or other mine is opened and worked, or his agent, shall permit any person interested in or having title to adjoining lands to have ingress and egress with surveyors and assistants to explore and survey such mine at his own expense, not oftener than once a month, for the purpose of ascertaining whether or not work is being done within five feet of the line. Each refusal causes forfeiture of \$20 to the person so refused. A justice of the peace may, by warrant on complaint and trial command the sheriff to attend and prevent obstruction to such entry.

WASHINGTON

Compiled by LEO & JORDAN, Attorneys at Law, Rooms 200 and 201 National Bank of Commerce Bldg., Tacoma, Wash.

CORPORATIONS.

Corporations may be formed for manufacturing, mining, milling, wharfing, docking, mechanical, banking, mercantile, improvement and building purposes, for building, equipping and managing water lines for transportation of wood and lumber; for building, equipping and running railroads, for constructing canals, and for carrying on or conducting any other species of trade or business.

No corporation except those engaged exclusively in loaning money on real estate shall commence business until the whole amount of capital stock is subscribed.

Two or more persons may form a corporation. Must make and subscribe and acknowledge under articles, in triplicate, the first copy in the secretary's state office, one copy in county and office in county where principal place of business is located, and retain third in corporation's possession.

Articles shall state corporate name, object, amount of capital stock, time of its existence (not more than fifty years), number of shares of stock, the number of trustees and their names, who shall manage the concerns of the company for such length of time (not less than five nor more than six months), as may be designated in such articles, name of locality and county in which principal place of business is to be located. Amendments may be made by supplemental articles executed and filed same as original articles. Copy of articles filed as aforesaid and certified by officer with whom filed is returned to a court.

When articles are filed as aforesaid corporation has power to sue and be sued, to make and use common seal and change the same, to purchase and hold, mortgage, sell and convey real and personal property and to appoint officers, agents, servants, etc., and define their powers, and duties, and fix their pay, to make by-laws, etc., the management of its property, to manage and regulate its affairs, transfer its stock and carry on all kinds of business within its objects.

Corporate powers exercised by boards of trustees, of not less than two, who shall be stockholders and a majority of them citizens of United States and residents of state. Trustees must take oath, to be annually renewed after term of their office, and election to be held according to by-laws. All elections by ballot. Each share has vote by holder or proxy, unless by-laws limit each shareholder to one vote; two-thirds of stockholders may expel trustee. Any vacancy except by expulsion may be filled by appointment by trustees. Notice of meeting to expel trustee must be on notice according to by-laws. Failure to elect trustees at appointed time does not dissolve corporation. Majority of trustees may transact any business.

First meeting of trustees may be called by notice signed by one or more trustees named in articles, specifying time and place; notice to be served personally on each trustee, or published in some paper in county where principal place of business is located for ten days. If no paper in county then in paper nearest thereto in state.

Stock shall be personal property, transferred after by-laws. No transfer valid except between parties, unless entered in detail on company books.

By-laws may provide time and manner of payment for stock, etc., if they do not, trustees may demand payments as needed. Notice of such calls may be personal or by publication in newspaper in county, if none in county then in nearest newspaper in state. If stockholder in default of calls, sufficient of their shares to pay all their assessments may be sold, such sales made according to by-laws, but sale shall not be made at office of company. Sale at public auction to highest bidder on first week's notice, unless as aforesaid. Shareholder's personal suits who will pay assessment and costs for smallest number of shares.

Stock held by executor, administrator, guardian or trustee may be represented and voted by said executor, etc., as a stockholder.

Stock may be pledged by delivery of certificate, but pledger may represent and vote stock.

No dividends declared except from net profits. In case of an undivided dividend of capital stock, trustees, except those who have their dissent entered in minutes of meetings, personally liable for amount so withdrawn or divided. Upon payment of all debts and dissolution capital divided among shareholders.

No corporation organized under the law shall have power to issue bills, notes or other evidence of indebtedness for circulation for money, except bonds by railroad company, which bonds shall not exceed the authorized paid-up stock of the company. Each stockholder except in banking corporations personally liable to the creditors of the company to the amount unpaid on

his stock subscription, but personal liability does not apply to persons holding stock as executor, administrator, guardian or trustee, holding the same as collateral security, but estates shall be liable as stockholders.

Books must be kept, containing names of stockholders (alphabetically arranged), showing number of shares of stock held by each, and time when they became owners of the same, books to be open to stockholders and creditors, who shall also have right to make and demand books and papers, and demand copy of any part of books or papers; said certified copies are presumptive evidence of facts therein stated against said company, or any stockholder. Any false entry or refusal to comply with the foregoing provisions is a misdemeanor and punishable by the fine from \$100 to \$1,000, etc.

Capital stock may be increased or diminished, but before stock is diminished debts must be reduced so as not to exceed amount to which capital is reduced. To change amount of capital meeting must be called by notice signed by majority of trustees and published eight weeks in newspaper published in county where principal place of business is located, or, if no newspaper there, then the nearest newspaper in the state. Notice must specify object, time and place, and amount to which capital is to be changed. Vote of two-thirds of all stock necessary to change amount of capital. If amount of capital is to be changed, a certificate of proceedings showing compliance with foregoing provisions shall be made, and showing amount of capital actually paid in, amount of debts and liabilities assumed, and to be repaid, is changed. Certificates to be signed and verified by chairman and secretary of meeting, and certified by a majority of trustees and filed the same as original articles.

Upon dissolution of a corporation the trustees at the time of dissolution shall be trustees of the creditors and stockholders, and shall have power to sue and recover property, etc., by the name of the trustees of said corporation, and to settle and adjust all business of the corporation.

DISSOLUTION. **PROCEDURES.** Corporations may be dissolved by presenting a petition to the superior judge of the county in which the office is located, accompanied with certificate of proper officers, stating that at a meeting called for that purpose it was decided by a two-thirds vote to dissolve, notice of application, setting forth its nature and specifying the time and place it is to be heard, shall be given by the clerk of the court by publication in some newspaper of the county once a week for eight weeks in the nearest newspaper published in the county, then in nearest paper published in the state. At time appointed the judge shall consider application, and if satisfied that facts stated in application and certificate are true, and that all claims against the corporation have been discharged, he shall enter an order declaring the corporation dissolved.

Principal place of business may be removed into another county by filing certified copy of articles with the county auditor. If place of business is removed to some other place in the county, publication and application shall be made for eight weeks in the newspaper published nearest to the present place.

All the foregoing provisions shall apply to corporations formed for the purpose of supplying pure and fresh water to cities, towns, and their inhabitants.

FOREIGN CORPORATIONS. Foreign corporations (except those organized to do real estate business, and those having a majority of its capital stock owned by aliens) may do business in this state upon compliance with the following provisions, to wit:

1. Filing and recording in secretary of state's office a certified copy of its charter and articles of incorporation.
2. Appointing an agent residing in this state at the place where the principal business of said corporation is to be carried on. Such appointment shall be in writing, signed by the president or chief officer of said corporation, and shall authorize said agent to accept service of process in all suits, etc.

MINING CORPORATIONS. In incorporations already formed, or which may hereafter be formed under this chapter, where the amount of the capital stock of such corporation consists of the aggregate valuation of the whole number of feet, shares or interest in any mining claim in this state, for the working and development of which such corporation has been or have been formed, no actual subscription to the capital stock of such corporation shall be necessary; but each owner in said mining claim shall be deemed to have subscribed such an amount to the capital stock of such corporation as under its by-laws will represent the value of so much of his interest in said mining claim, the legal title to which he may by deed, deed of trust or other instrument vest or have vested in such corporation, as he has provided that such corporation shall be so made on the execution and delivery to such corporation of such deed, deed of trust or other instrument; nor shall the validity of any assessment levied by the board of trustees of such corporation be affected by the reason of the fact that its full amount of the capital stock of such corporation, as mentioned in its certificate of incorporation, shall not have been subscribed as provided in this section, provided that the greater portion of said amount of capital stock shall have been so subscribed and paid in full; and that this section shall not be construed as to prohibit the stockholders of any corporation formed or which may be formed for mining purposes as provided in this section from regulating the mode of making subscriptions to its capital stock and calling in the same by by-laws or express contract.

Any person or persons, or company now incorporated, or that may hereafter become incorporated under the laws of this state, for mining or for the purpose of developing any mining claim, to purchase or appropriate, and take possession of and divert from its natural channel and use and hold the waters of any river,

brook or stream in this state that may be required for the mining and manufacturing purposes of any such person or persons, corporation or corporations, and to construct all dams, canals, reservoirs, ditches, pipes, flumes and aqueducts suitable and necessary for the controlling, directing and running such waters to the mines or manufacturing establishments of any such person or persons, corporation or corporations, where the same may be intended to be utilized for such purposes; provided, that no such appropriation or diversion of the waters of any such river, creek or stream from its natural channel, nor shall any such dam, canal, reservoir, ditch, pipe, flume or aqueduct be constructed, to the detriment of any person or persons, corporation or corporations, occupying the lands or being located below the point or place of such appropriation or diversion of such stream or its tributaries, or above or below such dam, canal, reservoir, ditch, pipe, flume or aqueduct, or of the owners of the lands through which the waters run in the natural course for the deprivation of the same, or the owners of the land through or upon which such dam, canal, reservoirs, ditch, pipe, flume or aqueduct may pass through or over, or be situated upon, unless just and adequate compensation be previously ascertained and paid therefor.

LICENS.

Every person performing labor upon or furnishing material to be used in the construction, alteration or repair of any mining claim, building, wharf, bridge, dike, flume, tunnel, tony, hoisting machine, wagon road, or any other structure, etc., etc., or who performs labor in any mine or mining claim, has a lien upon same for the work or labor done or material furnished.

Claim of lien must be filed in county and recorder's office within ninety days after the completion of the structure or improvement upon which work or labor was done or performed, or for which said material was furnished.

- The claim of lien must contain a statement:
 1. of the date when the claim was created and of, etc.
 2. The name of the owner or reputed owner of the property upon which lien is claimed or known.
 3. Name of person by whom claimant was employed, or to whom he furnished the materials.
 4. A statement of the terms and conditions of the contract if any.
 5. A description of the property to be charged with the lien sufficient for identification.
- The claim of lien must be verified by the oath of the claimant or some other person to the effect that the affiant believes the same to be just.
- The lien can be foreclosed in an equitable action.

MINING.

MINING, BUREAU. For the purpose of encouraging and developing the mining industry in this province, the government maintains valuable information concerning mines and mining through the ministerial powers of the state, a "mining bureau" has been created consisting of the governor, lieutenant governor and state treasurer.

SECRETARIES OF MINING, BUREAU. To collect reliable statistical information concerning the production and reduction of all precious and useful minerals of this state, to examine different processes for the treatment of ores used in this state, and to acquire into the interests of the province, the laws in relation to the relative merits of the various inventions, machines and mechanical contrivances for mining and metallurgical purposes, to keep on file, etc., reports and papers, which may be published, and all correspondence in relation to mines and mining, and to address and correspond with all parties and corporations engaged in mining, etc., etc.

LOCATION AND POSSESSION OF MINING LOCUS. All mining claims shall be governed by law in force at time of location.

Mining claims located after February 1, 1888, upon any vein or lode, etc. (whether located by one or more persons), shall not exceed fifteen hundred feet in length along the vein, and three hundred feet on each side of the middle of the vein at the surface, but no location shall be made until the discovery of the vein or lode within the limits of the claim located.

RIGHTS OF LOCATION. The locators of all mining claims on any mineral vein, lode or ledge on the public domain, and their heirs and assigns, as long as they continue to comply with the laws in relation thereto, shall have exclusive right to possession and use of all the surface included in the location, and all veins, lodes and ledges throughout their entire depth, and the top or apex of all such lodes within the surface line of their location extending downward vertically, although they may so far depart from the perpendicular as to extend outside of the vertical side line of the surface location.

IN DIS. The miners of each mining district may make rules and regulations governing location and amount of work necessary to hold possession not in conflict with the laws of the United States of this state, but on each claim one hundred dollars, "show worth of work must be done in each year. First year shall date from date of location. Failure to comply shall work forfeiture and claim may be re-located.

RECORDER. Miners of each district may elect a recorder. Recorder when elected shall record all notices, transfers, bonds, conveyances and assignments, including claims within the district. Such records declared to be public records and shall have same effect as to notice, etc., as the records of deeds and mortgages in this state. Recorder shall hold office for one year and until successor is elected, shall be elected with county auditor. He shall be certifying officer, less shall be same as county auditor. When vacancy in office, records shall be transmitted to county auditor and auditor shall keep such records as part of the records of his office, in districts where there is no mining recorder. Notices of

location, etc., and other instruments shall be recorded in county auditor's office within thirty days after execution thereof. All records made prior to February, 1888, validated.

PROTECTION OF PERSONS WORKING IN COAL MINES. The state is divided into two inspection districts. The governor shall appoint two competent coal mine inspectors for term of four years, subject to removal for neglect or malfeasance, appointments shall be made on recommendation of board of examiners consisting of three practical coal miners, and one mining engineer, the said board to be appointed by the governor. The inspectors must be citizens with at least five years' practical experience in this state, and shall have resided within the district at least one year. Inspectors shall not be interested in any coal mine or company. Inspectors shall be of good moral character and habits, and shall not commit any act injurious to mines or operators of mines, and shall devote entire time to duties of office. State shall provide modern and best instruments, and instrument to inspect property of mine, district inspectors shall give bond for performance of their duties in sum of \$5,000, with sureties approved by judge of superior court, salary \$2,000 per year and actual traveling expenses, shall examine each mine in district at least once in every three months and make records of examination manner of mines in district, employees in each mine, number of accidents, deaths, etc. Record must be completed by December 1st each year, and be filed in secretary of state's office 1st day of February following, two thousand copies of each report to be printed and published, annually by the state in pamphlet form to be free of taxation.

BOARD OF EXAMINERS. Board of examiners, appointed by governor, hold office for two years, meet biennially at state capital second Monday in January, and shall be organized and function by the governor when office of inspector becomes vacant, receive \$5 per day for each days service and actual traveling expenses, but per diem shall not exceed \$500 per annum.

MAPS. The owner, agent, or operator of coal mines and coal mines shall be required to keep on file accurate maps or tracings of mines showing workings thereof up to at least six months' prior to any given date. Within three months next after abandonment of mine accurate map or plan must be filed with secretary of state, showing location, extent and shall be property of state.

Maps must be on scale not to exceed one hundred feet to mile. In case of failure or neglect to make maps, district inspector shall have maps made at expense of owners, etc., cost recoverable by law, so far as owners, etc.

OPENINGS, ETC. Mines worked by shaft, slope or drift must have at least two openings, separated by natural strata by a distance of not less than one hundred feet, in mines already opened a distance may be less than one hundred feet, provided twenty-four persons may be employed before second opening reached. Second opening must be made without unnecessary delay, and in case natural ventilation used, before second opening is reached furnace shall not be placed within said shaft, and shaft, drift or slope shall be kept open and safe from damage by fire by brick, stone or other fireproof walls, until said second opening is opened.

SAFETY, ESCAPE, ETC. Equipment shafts shall be equipped with stairways of ladders, with landing places, or in them thereof secured apparatus to be attached to the shaft, and the apparatus and hoist line apparatus to be kept in good order and inspected every twenty-four hours by competent persons employed for that purpose.

VENTILATION OF COAL MINES, ETC. Ventilation must be equal to that of a draft of air, but per cent of air to each person, measured at the foot of the downcast, the same to be increased at discretion of inspector. An must be forced to face of every working place throughout mine, so that mine shall be free from smoke and gas. Mines must be inspected every morning for firetrap, with safety lamp. Result of inspection shall be marked at face of each working place. After March 1, 1892, unlawful to use furnace for ventilation. Fire holes shall be kept twenty feet in advance of the face of air, and if necessary on both sides when driving, toward abandoned mine.

CAVES. In all shaft or slope mines suitable provisions for separating between top and bottom shall be maintained, together with approved hoisting apparatus and cage, covered with safety iron, with hand safety device, and safety catches, covered cages not required in mines less than one hundred feet in depth.

COMPETENT ENGINEERS, ETC. Competent, experienced and sober engineers and firemen, not less than twelve years of age, must be employed. No person shall ride on or operate cage of hoisting machine, not more than twelve persons, shall ride on any car or cage at one time, not more than five persons for each ton's capacity of hoisting apparatus in any cage of car, except cages of persons employed at work, and cages of persons shall be hoisted while persons are descending, not such time, notice of which shall be posted at said mines. Persons shall not be lowered into hoisted out of any mine at a greater rate of speed than six hundred feet per minute, and no cage or car, and descending at any one time to be regulated by mine inspectors.

MINERS AND FEMALE. No boy under the age of fourteen years and no female shall be employed or permitted to be in mine when employed is in doubt about age, must be certified by state health officer, no boy under twelve to be employed in coal structures except clerks in office, etc.

BOULDER TO BE EXAMINED, ETC. All boulders must be kept in good order and inspected once in six months by competent persons, and result of examination to be registered by mine inspectors. Safety valves must be furnished with steam gauge, water gauge and safety valves.

SIGNALS. All underground, self-acting or engine, planes on which coal cars are drawn and persons travel shall be provided with proper means for signaling between the sloping places and

end of said plane, and sufficient pieces of refuge shall be provided at the sides of said plane, not more than sixty feet apart, and to extend six feet at right angles from the rail. Such pieces of refuge not required when separate traveling road is provided for employees.)

ACCIDENTS, ETC. When loss of life and serious personal injury should occur from any accident in coal mine the parties having charge of said mine shall give notice thereof to inspector of district, and, if death results, to the coroner of the county, who shall give notice of inquest. Mine inspector may testify at inquest and shall give all right angles from the rail. Mine inspector may question witnesses, etc., etc. Upon receiving notice of accident mine inspector shall at once repair to scene of accident and do what he can to procure present and future safety of men, shall investigate cause of accident and keep record of same, and if ordered witnesses to attend, testify, etc. Cost of investigation to be paid by company.

POWER OF INSPECTORS. Inspectors may enter and inspect any and all mines and machinery used within their district at any time day or night. Owners must furnish facilities. If owners refuse, inspector shall file affidavit with superior judge and obtain order from such judge commanding owner, etc., to allow inspection and comply with law, or in default thereof to be in contempt of court and to be punished accordingly. If miners are worked contrary to law, inspector must proceed by injunction (without bond) to close said mine.

On petition of not less than ten reputable citizens, or miners, inspectors may be directed by superior court to answer to charges of neglect of duty, or incompetency, or malfeasance in office. If court finds charges true, he shall so certify to the governor and the governor shall declare office vacant, and proceed to fill vacancy according to law.

AGAINST INTERFERENCE. No person shall, if not against petitioner, violate any laws. Any person who shall knowingly mine any water gauge, barometer, air-course or brattice, or shall obstruct or throw open any airways, or carry any lighted lamp or refuse into places worked by the light of safety lamps, or shall handle or disturb any part of the machinery of the hoisting engine, or open a door in the mine and not have the same closed again, whereby danger is produced either to person or property, or who shall enter any part of the mine against caution, or who shall interfere with or attempt to interfere with any engineer, fireman or employee employed in or about such mine in the discharge of his duty or employment, or who shall disobey any order made in pursuance of the mining law of this state, or violate any of the rules established by said law, or who shall do any willful act whereby the health of any person working in any mine or mines is injured or endangered, or any act or acts endangering any mine or machinery therein, shall be deemed guilty of a misdemeanor and upon conviction be punished by fine of not more than \$500 or not less than \$50, or by imprisonment in the county jail for a term not exceeding six months nor less than three months, or by both fine and imprisonment.

LA SUER FOR PROPS. The owner, etc., of mines shall keep sufficient supply of hand props, and shall send down same when needed or demanded.

STEAM POWER. In all mines where coal is hoisted by steam power and there is no means of ingress or egress afforded to persons except by hoisting apparatus by way of shaft or slope, a steam pump conveniently situated with sufficient supply of water shall be maintained always ready for use in any part of the buildings or premises within the foot of coal hoisting machinery, in case of failure to comply, mining inspector shall proceed by injunction to close said mine.

STRETCHERS. Stretchers for purpose of removing injured persons shall be constantly kept at or near mouth of all drifts, shafts or slopes.

DOORS. All main doors in coal mines shall be so placed that wherever one door is open another having the same effect on the same current of air shall be and remain closed and thus prevent any stoppage of the air.

RULES. At all mines, printed rules, approved by mining inspector, regulating the duties of persons employed, shall be kept posted in conspicuous places.

SAFETY LINES. Mines in which two or more mines are so located as to allow connection by permanent entries between, the right of way for such entry may be obtained in the manner provided by any law of eminent domain.

TOOLS. All iron needles for iron tamping bars must be tipped with five inches of copper. Failure or neglect to comply here with punished by fine.

REPORTS OF COAL SOLD. All owners, etc., of coal mines shall keep accurate account of all coal sold or sold from their mines and deliver same to inspector once in every three months and shall send certified copy of same to the state treasurer.

TAXES. Every ton of coal sold or sold from any mine shall be taxed four mills, said amount to be paid quarterly, on the 1st day of January, April, July and October each year.

WEIGHING COAL. All coal mined at bushel or ton rates must be weighed and credited to mine before being taken to market.

EXCAVATIONS. To BE ENFORCED. All shafts, excavations and holes, whether used for mining or otherwise, must at all times be securely fenced. These requirements, in relation to fencing may be enforced in statutory proceedings before justice of the peace or police court.

SAFETY CAGES. All vertical shafts of more than one hundred and fifty feet in depth shall be provided with iron bounded safety cages. The safety apparatus, whether consisting of eccentric springs or other device, shall be securely fastened

to the cage and shall be of sufficient strength to hold the cage loaded at any depth, provided the cable shall break. Fine for violation of this provision not less than \$500 nor more than \$1,000.

OIL, WELLS, SALT WELLS, ETC.

Whenver twenty-six taxpayers (each paying taxes on at least \$1,000) shall petition county commissioner for appropriation of specific sum for boring for minerals, such as coal, oil, gas, salt, etc., the county shall make estimate of probable production, etc., and shall call general election to vote for or against. The notice of election shall state fully the amount to be raised, purpose for which used and locality where to be used, etc., and no money shall be spent on land not owned by the county or held by the county on lease of not less than twenty years. The tract of land used shall be nearly square and contain not less than ten acres, and the well bored or drilled near the center. If there are at one time the site. No small vote who did not pay taxes in county preceding year. Ballot shall read "tax, yes" or "tax, no." In making estimate of cost, etc., commissioner may add fifteen per cent. for delinquency and expense of collecting. Tax collectible same as school tax and payable on order of majority of commissioners. Commissioners shall advertise in the newspaper in said county having largest circulation for four consecutive weeks for bids, etc., for boring or drilling well. If no newspaper in county then in newspaper nearest county. When bids are opened, if it appears to majority of commissioners that any of them are reasonable, they shall let to lowest bidder; shall require from contractor good and sufficient bond; within one year after well is completed, county commissioner may after the fact have same proved by well title to well, etc., proceeds to go to general county fund. Commissioners may draw on general county fund to make up deficit not to exceed \$1,000. Election expenses paid out of general fund. No election for this purpose in any county other than once in two years.

WEST VIRGINIA

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CORPORATIONS.

FORMATION OF MINING. The agreement for incorporation should set forth:

1. Name of the corporation.
2. The purpose for which it is formed.
3. Place where its principal office or place of business shall be kept.
4. Term for which it is to exist, not exceeding fifty years.
5. The amount subscribed to the capital stock, the number and value of each share, and the amount to which corporators desire the privilege of increasing the capital.
6. The agreement must be subscribed by five or more persons, who need not be residents of the state. It must be acknowledged before a notary public or some officer authorized to take the acknowledgment of deeds, and two of the corporators must make affidavit that at least ten per cent. of the capital subscribed has been paid in good faith, and with out any intention of withdrawing it before the dissolution of the corporation. Upon the filing of such agreement and affidavit with the secretary of state, he will issue a certificate of incorporation, declaring the persons named in the agreement to be the incorporators.

ORGANIZATION AND BY-LAWS. The first stockholders' meeting must be held not later than twenty-one nor more than ninety days after the date of incorporation. At this meeting the by-laws should be adopted providing for:

1. Officers, including directors, and the duties and tenure of office, and compensation, except where this latter is left to the board of directors.
2. Time of annual election.
3. Time, place and manner of calling meetings of stockholders and directors.
4. The general business of the corporation.
5. If desired, restrictions on the usual powers of officers.
6. These by-laws may be adopted by a majority vote of those present, and may be subsequently amended as provided by the by-laws.

The by-laws should be entered on the record and certified by the chairman of the stockholders' meeting and the secretary. The directors may adopt by-laws governing their action, provided they do not conflict with the by-laws adopted by the stockholders.

ELECTIONS. Directors may be elected annually by the stockholders, and such election shall be on the fourth Tuesday of January unless the by-laws prescribe a different time.

PLACE OF MEETING. The principal office or place of business of a corporation or territory of the United States District may be in any state or territory of the United States. The meeting of the stockholders and the meeting of the directors and stockholders may be held out of the state; but this cannot be done without the concurrence of persons holding a majority in value of the stock, nor without reasonable notice.

LIABILITY OF STOCKHOLDERS. Stockholders are not liable beyond the amount of stock subscribed by them. When that is paid up their personal liability ceases. There is no personal liability for debts or wages due to mechanics, workmen or laborers employed by the corporation.

REPORTS AND STATEMENTS.—The board of directors shall make a report to the stockholders, at the annual meeting, of the condition of the corporation. The report shall show:

1. Property and funds of the corporation.
2. Estimated value thereof.
3. Profits due to it, distinguishing such as are deemed to be good from those considered doubtful or hopeless.
4. Debts of the corporation.
5. The capital paid in and the estimated surplus or deficiency as the case may be.
6. Dividends declared, and losses incurred and profits accruing during the preceding year.

A copy of this report shall be furnished to each stockholder requesting it, with a list of the stockholders and their residences. But this report is not required to be published.

FOREIGN CORPORATIONS. No corporation incorporated under the laws of another state may hold property or transact business in this state, until it shall have filed with the secretary of state a copy of its articles of association and of the law and authority under which it is incorporated. A certificate that this has been done will be issued by the secretary of state, and this certificate shall be filed and recorded in the office of the clerk of the county court of one of the counties in which the business of the corporation is conducted. Every such corporation which shall do business in this state without complying with said provisions shall be guilty of a misdemeanor, and upon conviction thereof shall be fined not more than \$500, nor less than \$50, for each month its failure so to comply shall continue.

LIENS.

There are no liens specially applying to a mining corporation, or to miners, but every workman, laborer or other person who shall perform any work or labor by virtue of any contract for any incorporation doing business in this state, shall have a lien for the value of such work or labor upon all the real estate and personal property of said company, and such lien shall have priority over all liens created by or otherwise on such real estate or personal property, subsequent to the time when the said labor was performed, but there shall be no priority between the persons claiming such mechanics' liens. Such lien shall be discharged unless the person claiming it shall file with the clerk of the county court of the county in which such work or labor was performed, or in which the principal office, works, real estate or personal property of the company is situated, a just and true account of the amount due him after allowing all credits, which account shall be sworn to by the claimant or someone for him. But no such lien may be claimed for labor performed more than nine months before such lien was recorded.

In addition to the above, every mechanic, builder, artisan, workman, laborer or other person who shall perform any work or labor, or erect any material or machine, or for constructing, altering, repairing or removing a house, mill, manufactory or other building, appurtenances, fixtures, bridge or other structure by virtue of a contract with the owner or his agent shall have a lien thereon on the interest of the owner in the property. Such lien will be lost unless an account duly sworn to as above is filed in the same manner, within sixty days from the time the last work was done or material furnished. Such liens will be lost unless suit is brought thereon within six months from the time the lien is recorded.

MILLS AND DAMS.

A person having on his land or proposing to build on his land a water mill, or other machine, manufactory or engine useful to the public, and desiring to erect a dam across or in the water course on which the same is situated, or to cut or enlarge a canal through lands above or below, or to raise a dam, may apply to the circuit court of the county for the appointment of five commissioners to ascertain a suitable site and location for the dam, and propose to be taken. They shall give notice, hear evidence, and make report of their assessment of damages. Exceptions may be made to the report, and either party may demand a jury to ascertain the compensation. From such trial there may be an appeal as in all other civil cases. On payment to the parties entitled to the amounts ascertained the applicant by such judgment and payment will become seized in fee simple of the lands proposed to be taken. If work is not begun within one year, or if the mill completed for use within three years, or if the mill be destroyed, or become unfit for use, and the work of rebuilding be not commenced within two years, and completed within five years, then the title to the land shall revert to the owner and his heirs and assigns.

RIGHT OF WAY. Mining property is not subject to right of way more than any real estate, nor does it have in its favor such right of way. Mine owners desiring to drain their mines or lands through the land of others may apply to the circuit court for the condemnation of such right in the manner and form as to railroads, or such it is doubted if the statute can be enforced, as such condemnation can only be had for public uses, and the West Virginia supreme court have held a similar use not a public use.

A coal mine cannot be mined with five feet of adjoining land, and the owner of such land shall have the right, once a month to enter the mine, and if it is not surveyed it may be so, it will be enforced by a justice of the peace on complaint made.

MINING.

MINING CLAIMS ON THE PUBLIC DOMAIN. This state has no statutes regulating the location of such claims, and no lands on which they could be located.

COAL MINES.

INSPECTORS. The state is divided into two mining districts, and two mine inspectors, one for each district, are appointed by the governor and hold their office four years. The inspector's duties shall be to examine each mine at least twice a year and see that the provisions of the mining law are observed and strictly carried out. These examinations particularly apply to ventilation, drainage and general safety. He must make a record of such examinations, and annually as of June 30th make a detailed written report to the governor. This report shall be filed not later than December 30th following.

MAPS. The operator or agent of each coal mine shall make, or cause to be made, an accurate map or plan of each mine, and file a copy of the same with the inspector of the district. The original shall be kept in the mine office, subject to examination and use by the inspector. Twice a year the mine must be surveyed and the map corrected to show the extensions and changes in the mine. If the operator fails to do this the inspector may have it done at the expense of the operator.

OUTLETS OR ESCAPES. There shall be at least two outlets separated by natural strata of not less than one hundred feet if the mine be worked by shaft, and not less than fifty feet otherwise if worked by slopes or drifts. The outlets shall be a safe and available roadway from the interior of the mine to each of said outlets, which shall be kept free from all obstructions that might prevent travel in case of an emergency, and if either of said outlets be by a shaft, it shall be fitted with all proper appliances, ready for immediate use, whereby persons employed may readily escape. This will not apply while work is being actually prosecuted to communicate between said outlets, nor as to work being done in the final abandonment of the mine, if no more than ten (twenty persons are employed in the mine at any one time).

If the owner of a coal mine has no suitable ground to make a second outlet from the mine he may condemn ground therefor from adjoining land.

SAFETY APPLIANCES. A metal speaking tube from top to bottom of the shaft, and the usual and necessary safety appliances in the hoisting apparatus, must be provided, and once in every twenty four hours inspected by a competent person. Only sober and competent workmen shall be put in charge of the machinery. Not more than ten persons shall ride in a car of cage, and on a loaded car or cage no person shall ride. Refuge holes every sixty feet shall be provided on one side of each slope.

SAFETY LAMPS. A simple means of ventilation shall be provided, affording not less than one hundred cubic feet of air per minute for each person employed in the mine, and as much more as may be necessary, which shall be thoroughly circulated in all parts of the mine. It shall be kept from becoming extinguished, and the parts, and entrance thereto, shall be closed, warnings posted, and self-closing doors hung to hold the ventilation therein. Before each shift, all places where gas is known to be liable to exist must be examined by the fire boss with a safety lamp, and on each shift the fire boss shall be kept posted of the work of the mine, and shall not be permitted to enter until an examination is made. The coal dust shall be watered down. Safety lamps so used shall be furnished by the operator of the mine.

Every man employed shall be employed who shall be an experienced miner, or having two years' experience in a coal mine, who shall see to all the interior workings of the mine, ventilation, safety appliances, excavations, timbering, drainage and other matters. The "fire boss" or his assistant shall visit every working place at least once in three days and see that safety in all respects is assured.

INSPECTION. Proper facilities for entering and examining the mines shall always be afforded the inspector, and if his equipment is not complied with, he may enforce them by requiring the working of the mine by injunction obtained from the circuit court of the county.

BOYS AND WOMEN. No boys under twelve years of age and no women shall be employed in a coal mine.

DISOBEDIENCE TO LAWS. Any person who shall knowingly mine any shaft, lamp, air course or brattice, or do other acts, or fail to obey orders, which relax the life or health of any person employed in the safety of the mine is considered an indictable offense, and shall be liable to a fine of not less than \$50 nor more than \$500.

ACCIDENTS. The inspector shall be notified of any accident occasioning loss of life, or serious personal injury, by mail at once. In case of loss of life, an inquest shall be held. The operator of the mine shall submit annually during July deliver to the inspector a report of the preceding twelve months ending with June 30th. The report must include the details required by the inspector.

REMARKS. A fine of not less than \$50 nor more than \$50 for violating the provisions of the act. The act applies only to those mines employing ten or more persons in the twenty four hours.

SAFETY. Each company of person operating a coal mine shall provide suitable standard scales to be tested by the scales of weights and measures.

WEIGHMEN. A weighman shall be employed by the operator of the mine, and the miners working thereon shall employ one. If they fail to do so, then the weighman employed by the operator of the mine shall weigh the coal. Each of the persons so employed shall be sworn.

WEIGHTED REPORT. Scales and a weight shall be used and it paid for by measure it shall be ascertained before setting.

WAYS. It shall be unlawful for any company, firm or person, directly or indirectly, to issue, sell, give or deliver to any person employed by him, or if in payment of wages due such employee, or as the wages are sold or distributed, any such vesting ticket, draft, check or other evidence of indebtedness payable otherwise than in their face value in money. The company or person doing

it shall be liable to a fine of not less than \$20 nor more than \$100, and at the discretion of the court imprisoned not less than ten nor more than thirty days.

COERCION. The compelling or attempting to compel an employee to purchase goods or supplies from a particular person is a misdemeanor, punishable by fine and imprisonment.

QUARRIES

countries are subject to the laws relating to real estate generally.

REAL ESTATE.

The statutes do not indicate what shall be considered real estate, but fixtures and machinery would no doubt be counted such by the courts.

WISCONSIN

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CORPORATIONS.

GENERAL PROVISIONS RELATING TO CORPORATIONS.

GENERAL CORPORATION organized under any law of this state, when no other provision is specially made by law or by its articles of organization, shall have the usual powers vested in corporations, of making all necessary and proper contracts, and of suing and being sued, and of defending in all actions and proceedings in its corporate name, and of defending in all actions and proceedings in its corporate name; to have a common seal and alter the same at pleasure; to elect and appoint all necessary officers, define their duties and obligations, fix their compensation, and to alter and amend the same; to amend and repeal by-laws and regulations for its own government and such others as shall be necessary or convenient for the accomplishment of its purposes; to take and hold real and personal estate in fee simple, in fee tail, or for years, and to dispose of the same; to mortgage its franchises, tolls, revenues and property, both real and personal; to secure the payment of its debts; or to borrow money for the purposes of the corporation, and no other, with the consent of a majority of its members, and to establish, alter and repeal a sinking fund for the payment of its debts. A majority of the directors or trustees of every corporation, empowered according to the by-laws thereof, shall constitute a majority of the stockholders or members owning a majority of the stock in stock corporations and a majority of the members of other corporations shall constitute a quorum at any meeting of the stockholders or members, and be capable of transacting any business the proper and usual objects of the corporation, and of altering the articles of organization of the corporation.

by the laws of the articles of organization or the laws of the State of Tennessee. Every corporation organized under the laws of this State, except such railroad corporations as own or operate railroads in another state as well as in this State in connection with their railroad in this State, shall have at its principal office in this State a set of books and records, and shall have its general and its principal books of account, including its stock-books; and its principal managing officer or superintendent shall reside within this State; corporations not having their principal office or books of account within this State shall, when called thereon, by the railroad commission or by the court, produce its books of account and stock-books. At least once in each year each stock corporation shall file in its principal office, and keep on file there for the use of its stockholders, a statement of the assets and liabilities of such corporation, and a statement of the income and expenses for the previous year. Such statement shall be verified by the affidavit of the treasurer or other proper officer of such corporation, and shall contain a brief statement of the sources whence its receipts have been received, stated in classes, and a similar statement of disbursements, including the amount disbursed for each class of objects and purposes.

OFFICERS AND EMPLOYEES.—CORPORATIONS TO APPOINT ATTORNEYS TO RECEIVE SERVICE OF PROCESS. Every foreign or domestic corporation, not duly organized under the laws of this state, formed for the purpose of transportation of either passengers or property, shall, before doing any business in this state, deposit in the office of the secretary a certain written instrument, duly signed by the president and secretary thereof, and under their seal; it shall have such officers and seal, otherwise by the principal officer thereof, and therein appoint an attorney-in-fact, who shall reside in this state upon such cause of action arising out of any business of transaction in this state, shall be accepted irrevocably as a valid service upon such corporation, unless another attorney shall be subsequently appointed, and like notice to said attorney shall be subsequently given to him or her, in this state, if it complies with these provisions.

CAPITAL STOCK. Not to be **HOW TRANSFERRED.** Capital stock is deemed personal property, and when certificates thereof are issued, they may be transferred by indorsement of the certificate, by the holder, his attorney or legal representatives, and delivery of the certificate. Delivery of a stock certificate to a bona fide purchaser or pledgee, for value, together with a written transfer of the same, shall be sufficient delivery to transfer the title as against all parties, such transfer to be recorded upon the books

of the corporation or a new certificate issued before the rights of the corporation are affected. Transfer of stocks on books can, by proceeding, be compelled.

not be issued except in consideration of money or labor or property estimated at its true money value, actually received by it equal to the par value thereof, nor shall any stock or bonds be issued for money or labor or property estimated at its true money value, actually received by it, equal to seventy-five per cent. of the value thereof; and all stocks and bonds issued contrary to these provisions, and all stock dividends paid contrary to these provisions, shall be void. No corporation shall be provided, however, that any corporation whose stock or bonds have been or shall hereafter be admitted to the stock exchange of Chicago, New York, Boston or Philadelphia, or of either of the cities mentioned, shall be exempt from the foregoing provisions, but the price of such stock or bonds, when offered for sale, and the price current for the time being obtainable therefor on any of the said exchanges at which the same shall be offered for sale. Payment of subscriptions to stock may be enforced, or in case of such subscription the stock may be taken up, or the subscription on the stock for the space of sixty days after due, and after notice, such stock may be sold at public auction and the proceeds applied in payment of the installment called for and expenses attending the sale, and the stockholder remaining liable to the corporation for the deficiency.

corporation for the dividend. **SECTION 10. RESTRICTION ON CAPITAL STOCK.** Whenever the capital stock of any corporation shall be diminished by any corporate vote, the stockholders thereof shall be liable for the payment of all debts then remaining unpaid, in an action by any such corporation, to an amount equal to the sum respectively refunded to them, or credited upon their debts for unpaid stock, or both. And also the stockholders voting for such diminution shall be jointly and severally liable for the amount equal to the whole amount refunded to the stockholders or credited upon their debts for unpaid stock, or both; but all stockholders shall be liable for contribution to every stockholder compelled to discharge corporate debts upon the same basis equally to the extent of the amount refunded to them respectively.

STOCKHOLDER. How RELEASED TO THE CREDITORS? If any stockholder has transferred his stock which is not fully paid, the corporation may, by agreement, be noted on its stock-book, discharge the stockholder making such transfer from liability to it for the unpaid part of his stock subscription, and accept that of the person to whom the stock is transferred in his place; but the person transferring such stock shall be liable for the amount unpaid thereon to the then creditors of the corporation, and the transferee who may become such within six months after such transfer, or any lawfully appointed receiver or assignee of the corporation for that time.

of their stock may at all reasonable times inspect the books of the corporation. Every creditor of a corporation shall be informed at any time of the amount of capital stock of such corporation subscribed, the amount paid in, who the stockholders are, the number of shares of stock owned by each, and the amount unpaid by each, and at any time the shares owned by him and the amount of stock which were not fully paid for have been transferred within six months of the time of inquiry, the name of the person who transferred the same and the amount due thereon at the date of such transfer. A complete record of the proceedings of the corporation as to each, and the stock owned by each, shall be kept for each share of stock. When called on by any member, any corporation shall be present at any meeting, however notified, and shall sign a written consent to the holding of such meeting on the records thereof, they may transact any business at such meeting which could lawfully be transacted at any meeting of the members, and, otherwise provided, election of officers shall take place annually.

officers shall take place immediately.

ARTICLE IV. RIGHTS. Whenever any corporate shareholder shall have remained insolvent, or shall have neglected or refused to pay and discharge its notes or other evidences of debt, or shall have suspended its ordinary and lawful business, for one whole year, it shall be deemed to have surrendered their rights, privileges and franchises, and shall be required under any laws to be dissolved. This simply declares a cause for dissolution in a lawful way, and not the fact of dissolution for all purposes. In case of the dissolution of a corporation it may still continue as a body corporate for a period of three years for the purpose of settling all its affairs.

ARTICLE V. DIVIDENDS. No dividends shall be paid to the stockholders of any corporation until the capital stock has been fully paid in. All subsequent dividends shall be paid out of the net proceeds. Stockholders of corporations, other than railroad corporations, are personally liable for the amount of their stock for the payment of dividends to the same extent as partners in a partnership formed for the corporation, but not exceeding six months' service in one case.

monthly service on the first day of the month.

ARTICLE IV. STOCK OF FOREIGN MANUFACTURING CORPORATIONS. Every foreign corporation engaged in manufacturing within this state shall, upon the written request of any resident creditor, within sixty days thereafter, and annually thereafter, upon a like request, submit to the office of the secretary of state a statement showing the capital stock sold, the amount thereon actually paid in, the full name of each of its stockholders and the amount of stock held by each, and shall at the time of so filing the first statement, and annually thereafter, file with the secretary of state a certified copy of the statement so filed, and if any other officer of the corporation by mail, or any other officer thereof who may be in this state.

ORGANIZATION OF CORPORATIONS. Three or more adult

ORGANIZATION OF CORPORATIONS. Three or more natural persons, residents of this state, may form a corporation for one

or more of the following named purposes. For any lawful mercantile, trading, mining, smelting, quarrying, producing, lumbering, manufacturing business, etc. Articles of incorporation containing certain statutory requirements shall be made, signed and acknowledged, and the original articles, or a copy verified as such by the affidavit of two of the signers thereof, shall be recorded by the register of deeds of the county in which the corporation is located, and a like verified copy shall be filed within thirty days with the secretary of state. The first meeting of any such corporation may be held at any place, and at any time, and shall be open and subscribed. At least twenty per cent. of the capital stock must be actually paid in before a corporation can transact business with others than its members. The business of every stock corporation shall be managed by the directors, who shall be chosen annually by the stockholders from among their number as provided by the articles of organization or the by-laws, and shall hold one year and until their respective successors are chosen, except that when classified by the articles of organization they may be elected to hold accordingly.

LIENS.

WHO MAY HAVE WHAT SUBJECT TO. Every person who, as principal contractor, architect, civil engineer or surveyor, performs any work or labor, furnishes any materials or prepares any plans or estimates for, in or about the erection, construction, repairs, protection or removal of any dwelling house, or other building, or any machinery erected or constructed so as to be or become a part of the frechold upon which it is to be situated, or of any bridge, or in the filling up of any water lot, or the construction thereon of any wharf, pier, or other structure, or the dredging of the channel in front of such water lot, or in digging or constructing any well or fountain, or in digging, building or repairing any fences upon land, or the making or repairing of any walks, sidewalks or curbing, or any kind of artificial labor thereon, or on or over any land, or doing manual labor thereon, shall have a lien thereupon, and upon the interest of the owner of such dwelling house, building, machinery, etc., in and to the land upon which the same is situated, or of the person owning such manual labor to be done, and upon the water lots so filled or in front of which such dredging is done, not exceeding forty acres, or, if within the limits of an incorporated city or village, upon the piece or parcel of land used or designed for use in connection with such dwelling building, machinery, etc., or of any lot, or in which such manual labor is done, not exceeding one acre. Such lien shall be prior to any other lien which originates subsequent to the commencement of the construction, repairs, removal or protection of such building, machinery, etc., or of any lot, etc., and shall also attach to and be a lien upon the real property of any person on whose premises such improvements are made, such owner having knowledge the root and consenting thereto, and may be enforced by legal statute. The person or persons shall order contract for the purchase of any machinery to be placed or connected to or with any building or premises, and such person not having an interest in such building, or premises in or connected with which such machinery is placed, shall be entitled to a lien, to secure the payment of the value of the person furnishing such machinery shall have, and to be a lien upon such machinery, and shall have the right to remove from such building or premises such machinery, in case there shall be default in the payment for such machinery when due, leaving such building or premises in as good condition as they were before such machinery was placed in or on the same. And when ever the doing of manual labor on land for which a lien is given in this section, consists of the building and construction of a building or structure designed or intended to be used as a single thing, or as a part of a single thing, and such building or structure is not limited in extent to one acre of land in an incorporated city or village, or to forty acres of land outside such city or village, but extends over and across more than forty acres of land, whether within or without of partly within and partly without such city or village, then in every such case, the limitation to an acre or forty acres, as the case may be, in this section confined, shall not apply, but the lien shall be a lien upon the whole of the interests of the owner in and to the whole of said continuous building and structure and the whole of the land of the owner on which the same is constructed, or which is intended to be used or intended to be connected to or with such building or structure, or intended or entered by the party entitled to the lien in the court of any of the said counties in which the said claim of lien is so filed, and in the enforcement of such lien the said land and building or structure, if sold, shall be sold as one continuous and single thing.

LIEN OF SUB-CONTRACTOR AND EMPLOYEES. MISFEITING SERVANTS AS TO USE OF MATERIALS. Every person who, as sub-contractor of a principal contractor, or employee of any contractor or sub-contractor, performs any work or labor for or furnishes any materials to a principal contractor or sub-contractor, or in any of the cases mentioned in the preceding section, shall be entitled to a lien, it, within sixty days after performing such work or labor, or furnishing such materials, he shall have made in writing to the owner of his agent of the property to be affected by such lien, setting forth that he has been employed by such principal contractor or sub-contractor to perform or furnish and has performed or furnished such materials, and shall have made a statement of the labor performed or materials furnished, and the amount due therefor from such principal contractor or sub-contractor, and that he claims the lien given by law. In all cases where a lien shall be filed by any person other than the principal contractor, it shall be the duty of the principal contractor to defend

any action brought thereupon at his own expense, and during the pendency of such action the owner may withhold from the contractor the amount of money for which such lien shall be filed, and in case of judgment against the owner or his property upon the lien, he shall be entitled to deduct from any amount due by him to the contractor the amount of such judgment and costs, and, if he shall have settled with the contractor in full, shall be entitled to recover back from the principal contractor any amount so paid by the owner, for which the principal contractor shall be liable. If any contractor or sub-contractor who shall purchase materials on credit, and represent at the time of purchase that the same are to be used in a designated building or other improvement, and shall thereafter use or intend to use the same for other than that designated, without the written consent of the person from whom the materials were purchased, with intent to defraud such person, shall be deemed guilty of a misdemeanor, and on conviction shall be punished by imprisonment in the county jail not more than three months, or by a fine not exceeding \$500.

Such claim for lien shall contain a statement of the contract of purchase upon which it is founded, the name of the person against whom the lien is claimed, the name of the claimant or assignee, the last date of the performance of labor or furnishing of materials, a description of the property affected thereby, a statement of the amount claimed, and a statement of the relation thereto. It shall be signed by the claimant, or his attorney, and need not be verified, and may be amended in case of action brought by order of the court as pleadings may be. Lien shall be filed in the office of the clerk of the circuit court of the county in which the lands affected by the lien are situated. Statutory provisions are provided for the manner of testing liens.

LIENS ON MINING AND SMELTING PROPERTY. Any person who shall do or perform any work, labor or services, for any person or corporation engaged in or about the operation of mining, smelting or manufacturing iron, copper, silver or other ores or minerals in this state, and any bona fide holder of any draft, time check or order for the payment of money due for any such labor, service or wages by any person or corporation, shall have a lien for the same on the wages due him, or for the amount due on such draft, time check or order, upon all the personal property connected with such mining, smelting or manufacturing industry belonging to such person or corporation, including the ores of the person doing or performing such labor, service or work, and the machinery and other personal property used in the operation of such mining, smelting or manufacturing industry, and all the interest of such person or corporation in any real estate belonging thereto, and all the interest of such person or corporation in the proceeds of sale of all other debts, judgments of decrees, liens or mortgages, against such person or corporation, except liens accruing to this list of taxes, fines or penalties, subject to the exceptions and limitations set forth in the law.

MINING.

RULES GOVERNING MINING RIGHTS. Where there is no contract between the parties, or if this is established by the landowner to the contrary, the following rules and regulations shall be applied to mining contracts and leases for the digging of ores and minerals, viz.: 1. No locus of a mine, vein, or lode, if found, made to a miner, shall be subject to the mining thereof, unless the discovery or prospect has been struck, unless the miner shall forfeit his rights by neglect. 2. The discovery of a vein or lode, or a mine, containing ores or minerals shall entitle the discoverer to the ores of minerals pertaining to the vein, subject to the toll of his landowner, before, as well as after the ores or minerals are separated from the frechold, but such miner shall not be entitled to recover any ores or minerals of the value thereof from the landowner, on his wages in good faith, and known to be mining the vein, until he shall have given notice of his claim, and he shall be entitled to the ores of minerals dug after such notice. 3. Cases and customs among miners may be proved, except in case of mining contracts, to the same extent as usage may be proved in other cases.

Every corporation, company or person engaged in mining may, when it is necessary in order to preserve the work in mining, upon compliance with the provisions of the statute for the benefit of the mine, do such damage as may be necessary to the work on the mine shafts, levels or land upon or over, or below the surface of the land, and any adjoining tract, in order to do this, in case of a mine, doing as little damage as the case will admit of. The nature of the work, the nature of the damage, and the extent of the same, shall be commissioners upon petition to the county judge. If the party may appeal from the award of the commissioners within thirty days after the same is filed, or filing with the county clerk, then the matter shall appeal.

SUITE TO BE KEPT ACCOUNT OF ORES RECEIVED. Every miner and every purchaser of ores and minerals shall keep a substantially sound book, ruled into suitable columns, in which shall be entered, in summary form, the date, month and year when received, the name of the person from whom purchased, the name of the person by whom mined and delivered, the name of the owner of the land from which the ores or minerals were mined, and the name of the owner of the land, and the date of the purchase of the land. Said book shall be kept at the mine, or at the usual place of business of such miner or purchaser, if he is dead, in this state, and shall be open to all persons at reasonable times for the purpose of making extracts therefrom.

POWER TO HOLD STOCK IN OTHER CORPORATIONS. Any corporation formed for the purpose of mining, smelting, quarrying, or any mechanical or manufacturing purpose, incorporated with this state, or with any other state, or with any foreign country, or power, in its corporate capacity, to subscribe for, purchase, or

and hold stock in any corporation, foreign or domestic, formed for the purpose of manufacturing, creating or generating any kind of power or light, to be used as a mechanical agency, when such power or light is wholly or in part, in facilitating the operations of such mining, smelting, quarrying or manufacturing company, or the transaction of its business.

WYOMING CORPORATIONS.

CREATION AND REGULATION.—Three or more persons who may desire to form a company for the purpose of carrying on any kind of manufacturing, mining, chemical, manufacturing or mechanical business, constructing wagon roads, railroads, telegraph lines, ditches, building flumes, running tunnels, or carrying on any branch of business designed to add to the industrial or productive interests of the country, may make, sign and acknowledge, before some officer competent to take acknowledgment of deeds, duplicate certificates in which shall be stated the corporate name, the object, the capital stock, the term of its existence, not to exceed fifty years, number of shares, the number of trustees and their names, the name of the town and county in which the corporation is to be located, and shall be carried on, and shall file one of the said certificates in the office of the county clerk of each county wherein the business of the company is to be carried on, and one thereof in the office of the secretary of state.

CERTIFICATE AS TO CORPORATE POWERS.—When said certificate is certified to by the secretary of state, it shall be evidence of the existence of such company, which shall be a body politic and corporate, and by its name have succession, be capable of suing and being sued, and have a common seal. It shall be capable of acquiring by purchase, prescription, donation or otherwise, holding or conveying by deed or otherwise, any real or personal estate necessary to enable the said company to carry on the operations named in the certificate.

TRUSTEES.—Not less than three nor more than nine trustees, who shall respectively be stockholders, and annually elected by the stockholders at such time and place as shall be directed by the by-laws, shall manage the property and concerns of the company. The elections shall be by ballot, and each stockholder shall be entitled to as many votes as he owns shares of stock. When a vacancy shall happen among the trustees it shall be filled for the remainder of the year as the by-laws provide. The failure to elect trustees shall not dissolve the company.

ASSESSMENT OF CAPITAL STOCK.—The trustees may demand from the stockholders, respectively, all such sums of money by them subscribed as the trustees shall deem proper, not to exceed ten per cent. per month, under the penalty of forfeiting the shares of stock subscribed and all previous payments.

BY-LAWS. The stockholders, if the certificate so provides, shall have the power to make by-laws for the management of the business affairs and disposition of the stock of the company, not inconsistent with the laws of the state.

TRANSFER OF STOCK. The stock shall be transferable as the by-laws prescribe. The company cannot use any of its funds in the purchase of stock in any other company, nor in its own; provided, however, it can hold and own any stock and to any amount in any other company that is or may be subsidiary to and that does contribute to the objects and purposes of the first company named.

LIABILITY OF STOCKHOLDERS. The stockholders shall be severally and individually liable to creditors to the amount of the unpaid assessments on capital stock held by them respectively, for debts and contracts made by the company.

GENERAL POWERS OF CORPORATIONS. Every corporation under the provisions of this chapter, and its officers and agents, shall have:

1. To have succession by its corporate name, for the period limited in its certificate of charter.
2. To sue and be sued, complain and defend in any court of law or equity.
3. To make and use a common seal, and have the same at pleasure.
4. To hold, purchase and convey such real estate and personal estate as the purpose of the corporation may require.
5. To appoint such officers, directors, officers and agents as the business of the corporation shall require, and to allow them a suitable compensation.
6. To make by-laws, not inconsistent with any existing law, for the management of the corporation, the regulation of its affairs, and for the transfer of its stock.

Full-paid stock may be issued for property.

Any corporation may increase or diminish its capital stock to any amount which it may deem sufficient and proper for the purposes of the corporation.

ACCEPTANCE OF CONSTITUTION BY CORPORATIONS. No corporation organized under the laws of Wyoming or any other jurisdiction other than the state of Wyoming shall be permitted to transact business in this state until it shall have accepted the constitution of the state. Every acceptance of the constitution shall be filed and recorded in the office of the secretary of state, who shall note on the margin of the record of the corporation filing such acceptance, and the fact that the same is filed.

LIENS.

LIENS ON PERSONAL PROPERTY. Any mechanic, artisan or other person who shall bestow labor upon any article of personal

property at the request of the owner, or who shall furnish materials for making or repairing same, shall have a lien thereon for his reasonable charges therefor.

APPROPRIATION OF ARTICLES. If the foregoing charges are not paid within thirty days, the person to whom such lien is given may apply to a justice of the peace of his county to appoint appraisers to appraise the several articles of personal property on which such lien is claimed. The justice shall thereupon appoint three appraisers, who shall, under oath, appraise such personal property, and return the appraisal to the justice within ten days after their appointment.

NOTICE OF SALE. A person to whom such lien is given shall give ten days' notice in writing, placed and left at the place, which shall be personally served upon the owner, if he reside within the county; if not, by publication in some newspaper, and shall transmit by mail to the owner a copy of such notice. The notice being personally served, or the service being completed, after four weeks the party claiming a lien may proceed to sell such property at public auction, for cash, in accordance with the notice, between the hours of 10 A. M. and 4 P. M. of the day appointed, and from the proceeds pay the costs of such appraisal, notice and sale, and satisfy his lien. The residue of the property unsold he shall surrender unto the owner. No such sale shall be made for less than two-thirds of the appraised value of the articles sold.

LIENS ON REAL ESTATE.—He who shall work at the request of the owner thereof, in a vein or lode, mine or bank, shall have a lien thereon to the amount due at any time when a demand shall be made upon such owner and payment shall be refused.

LIENS FOR MATERIALS. Any person who shall labor as a mechanic or otherwise, or who shall furnish materials for erecting or constructing apparatus upon any mine referred to in the preceding section, shall also have a lien upon the mine for his reasonable charges.

LIENS ON OIL LANDS. All persons performing labor or furnishing materials shall have a lien upon the surface of the land, which he labored or furnished materials, as miners or other laborers upon or in mines, as provided in this chapter.

SUBCONTRACTORS' CLAIMS. Any subcontractor, whose demand has not been paid, by giving notice to the owner and attested account of his work performed and material furnished, is entitled to the amount of his claim out of the money due the contractors; and the owner shall thereupon notify the contractors, so that, if there are any disputes as to the true sum due, the amount may be amicably adjusted. But if, within thirty days after the receipt of such notice, the contractor does not notify the owner that he intends to dispute the claim, he shall be considered as assenting to the demand, and the owner shall be justified in paying the same without delay.

AGAINST WHOM LIENS HOLD.—The lien shall hold not only against the owner of the mine, but against all persons who shall have purchased such mine.

PERFECTING LIENS. Any person entitled to a lien under this chapter shall make an account in writing of the items of labor, skill, machinery and material, and making oath thereto, shall within sixty days from the time of completion file the same in the office of the register of deeds of the county where mine is located, with a correct description of the property, which account so made and filed shall for one year thereafter operate as a lien upon the described property. All lien claims for labor performed or materials furnished shall be concurrent and paid pro rata out of the proceeds arising from the sale thereof. If he may then proceed by civil action, and the lien shall continue until such suit or suits be finally determined. All persons claiming liens shall be made parties defendant, and their rights therein shall be determined by the court. Such action shall be brought in the county where said lien is filed. Service thereon may be had in any county in the state.

MORTGAGES AND BUILDERS' LIENS. Every mechanic who shall bestow labor upon, or furnish materials for building or improvement upon land shall have for his work or materials a lien upon such building or improvements, and upon the land belonging to such owner on which the same are situated, to the extent of one acre, to secure the payment of his work or materials, with a deed. Said lien is a prior incumbrance upon such land and improvements, and any person enforcing such lien may have such building or improvements sold under execution. Purchaser may remove the same within a reasonable time.

PAYMENT OF BUILDERS' LIENS. Every original contract or shall within ninety days, and every sub-contractor or laborer within fifty days, file in the office of the register of deeds of the proper county a just and true account of the demand due, which shall be a lien upon such building or improvements, with a description of the property, with the name of the owner or contractor, which shall be verified by oath, provided the original contractor shall not file a lien prior to the expiration of sixty days after the completion of this contract.

PLEADINGS AND PRACTICE. The practice under this chapter shall be the same as in all ordinary civil actions, except as otherwise provided. Every person, except the original contractor, shall give ten days' notice before suing, and shall file his claim, returned, to the owner, stating therein the amount of his claim, and from whom it is due. It is then the duty of the contractor to defend at his own expense, and during the pendency thereof the owner may withhold a sufficient sum of money to pay the claim and the costs of court, which includes \$25 for attorney's fees.

PRIORITY OF LIENS. The lien for work and labor performed and materials furnished, as aforesaid, shall be preferred to all other incumbrances which may be attached to such building or ground subsequent to the commencement of such building or improvements.

MINING.

LODE AND PLACER CLAIMS. In any mining district the miners may meet and organize and elect a recorder and make regulations, not in conflict with the laws of the United States or this state, governing the location, manner of recording and amount of annual work necessary to hold possession, subject to the following requirements:

1. Any five miners owning in part or in whole claims within the proposed district shall give at least three written notices of a meeting called by them for organizing such district.

2. The meeting must be attended by at least ten persons, owning in part or in whole claims within the proposed district.

3. The recorder elected shall hold office until his successor is elected and qualified; he shall give bonds for at least \$2,000, which shall be approved by the probate judge, and filed in the office of the county clerk.

4. When a district is once organized it cannot be subdivided, except in accordance with the local laws of the district, or by action of the legislature. In case of abandonment the recorder shall deposit all records pertaining to his office in the office of the register of deeds of the county.

5. Each mining district may regulate the fees for recording certificates and other instruments.

The laws and records of each mining district shall be filed with the county register of deeds.

MINING WATER RIGHTS. Any person mining or milling in the state shall have the right to bring water from mines or natural water courses for such business interests may require, provided it shall not infringe on vested rights.

RIGHTS OF WAY. All mining claims shall be subject to the right of way of any ditch or flume for mining purposes, or of any flume, pack trail or wagon road across such claim of property, provided, such right of way shall not be exercised against such property without the consent of the owner, except in condemnation, as, in the case of land taken for public highways. The owner of the surface property may demand satisfactory security from the miner, which, if refused, will give the right to sand or cement of the surface to upon miner from working such mine.

RELOCATION. When there is error in the original location certificate, or where it is desired to change the surface boundary of the claim, such location may file an additional location certificate in compliance with and subject to this act, provided such re-location shall not infringe upon the rights of others. No location certificate shall contain more than one claim or location. Where there is collision for the purpose of obtaining possession of any mineral claim then in the actual possession of another, by force, threats or stealth, and they shall proceed to carry out such purpose, such persons so engaging, shall be guilty of a misdemeanor, and upon conviction shall be fined a penal sum not exceeding \$5, and be imprisoned in the county jail for not less than sixty days nor more than six months.

MISDEMEANOR. Any person who shall unlawfully destroy any mining property shall be guilty of a misdemeanor, and upon conviction thereof shall be fined a penal sum of money not less than \$50 nor more than \$1,000, or be imprisoned not less than thirty days nor more than one year, or both.

FRAUD. Any person who shall engage in any swindling, in relation to any mine or mining property, designed to cheat and deceive others for the purpose of gain, shall be guilty of a felony, and upon conviction thereof shall be fined any penal sum of not less than \$50 nor more than \$5,000, or imprisoned in the penitentiary for not less than thirty days nor more than three years, or both.

PROTECTION OF SHAFTS. Any persons who have sunk mining shafts upon any mining claim shall forthwith secure such shafts and openings against the entry of live stock running at large upon the public domain, by covering them in a manner to render them safe, or by making a strong fence around such shaft or openings interested. Any persons who shall fail to comply with this section shall be guilty of a misdemeanor, and upon conviction, shall be liable for damages sustained by loss of live stock thereby.

SIZE OF CLAIM. The length of any mining claim located with in the state shall not exceed three hundred feet frontally, along such vein. The width shall not exceed three hundred feet on each side of the discovery shaft. A discoverer of a mineral vein shall, within ninety days, record such claim with the recorder of the mining district, if such district be organized, and shall, within unexpired and twenty days, record the same with the county clerk, and ex officio register of deeds by location certificate, which shall contain the following facts: 1. The name of the lode claim; 2. The name of names of the locator or locators; 3. The date of location; 4. The length and width of the claim; 5. The amount of the surface ground claimed on the lode

side; 6. A description of the claim by such designation of fixed objects as shall identify the claim beyond question.

DISCOVERY RIGHTS. The discoverer of any mineral vein shall have a period of one hundred and twenty days, in which to sink a discovery shaft. A discoverer of any placer claim shall, within thirty days, record such claim with the recorder of the mining district, if such district be organized, and shall, within ninety days, cause to be recorded such claim with the recorder of deeds of the county by a location certificate, which shall contain: 1. The name of the claim, designating it as a placer claim; 2. The name of the locator; 3. The date of location; 4. The number of claims across the claim; 5. A description of the claim, which designation of natural or fixed objects as shall identify it beyond question.

PATENTS FOR PLACER CLAIMS. When any person has held and worked his claim in conformity with the laws of the state, for a period of five years, and the recorder of the mining district for five successive years after the 1st day of January succeeding the date of location, he shall be entitled to proceed to obtaining a patent for his claim from the United States without performing further work.

Lead mines are not included in this act.

COAL MINES.

MINES. Every operator of a coal mine shall cause to be made an accurate map of such coal mine, of a scale not to exceed two hundred feet to the inch, which shall exhibit all the openings, and shall show the direction of the air currents therein, and the boundary lines. Said map shall be kept at such mine for the use of the state inspector of coal mines. Said operator shall also cause to be made every six months accurately to be a plan of the excavation made, and of all the working places during the preceding six months, exhibiting clearly the parts abandoned, or parts in proximity to the boundary line. Said map will be the property of the state, and shall remain in the care of the inspector of coal mines. If said inspector believes said plan to be inaccurate, he may authorize a correct plan made at the expense of the operator of said mine.

OPENINGS TO BE MAINTAINED. No person shall work in any coal mine, unless such mine is in communication with at least two openings by a distance of not less than fifty feet. When a second opening is made, not to exceed seventy five feet in vertical depth, it shall be set apart exclusively for ingress and egress, shall be clear of any obstructions, and not to exceed an angle of sixty degrees in descent. The hoisting machinery and shafts shall be kept in its condition and inspected once in each twenty four hours by one employed for that purpose. The number of any coal mine shall not exceed thereon any measure of ventilation, amounting not less than one hundred cubic feet per minute for each and every person employed in said mine.

MINING BOSS, DRIFT AND FLOWERS. The owner shall employ a competent and practical inside mining boss, who shall keep a careful watch over the ventilating apparatus, the draught and traveling ways. He shall measure the air current at least once a week, at the inside outlets, he shall keep a record of such measurements, which shall be open for examination by the state inspector. Any worker in whose shaft intentionally infringe any rule, apparatus or device any order, or in any way, on the provisions of this chapter shall be deemed a felon of misdemeanor, (Excluded from COAL MINES.) The governor shall nominate a state inspector of coal mines, who shall hold his office for two years, and until his successor is duly appointed and qualified. He shall be not less than thirty years of age, a citizen of the United States, and of temperate habits, he shall receive a salary of \$2,500 and actual traveling expenses, to be paid quarterly by the state treasurer upon warrants of the auditor. He is authorized to procure such instruments and chemical tests as may be necessary to discharge his duties, at the cost of the state, to be paid by the governor. He shall give a bond for the faithful discharge of his duties, in the sum of \$5,000 to the state of Wyoming.

APPEALS FROM DECISIONS OF THE INSPECTOR. The inspection shall be subject to appeal to the district court of the mining district, and the operator shall not be satisfied with his decision, he may within fifteen days thereafter, appeal to the district court of the county in which the mine concerned is located, and said court shall speedily determine the point involved, which said decision shall be binding and conclusive.

PROTECTIONS. Boys under the age of fourteen years and girls or women of any age shall not be permitted to be employed in, and about any coal mine in the state inspected, on any visit to any mine, who find a child or girl in the position of the condition in which he finds it, and post the same in the office of the mine.

alternative of waiting until the employment of a surveyor by the government on other work in the vicinity of the claim renders it convenient to have the survey made at a cost not exceeding \$50, or of sooner procuring, at his own cost, the survey by a duly commissioned surveyor of dominion lands, under instructions from the surveyor-general; in the latter case, on receipt of the plans and liabilities of the survey and approval thereof by the surveyor-general, the patent of the claimant shall be granted, and he is entitled to receive his patent, and to have returned to him the \$50 deposited by him to defray the cost of survey.

8. Should the claimant, or his legal representatives as afore said, fail to give, within the time specified, or to pay, or to have, or, having proved such expenditure, fail within the prescribed time to pay in full, and in cash, to the agent the price herebefore fixed for such mining location, and also to pay the sum of \$50 herebefore prescribed for the survey of his location, his rights in the location or claim on his or their part to acquire it shall lapse, and the location shall thereupon revert to the crown, and shall be held, along with any immovable improvements thereon, for disposal, under these regulations, to any other person, or as the minister of the interior may direct.

(a). In cases where applications for mining locations are made in respect of lands within surveyed townships, they must conform to the regular system of surveys, that is, the location shall be either legal subdivisions of regular subdivisions thereof, and prior to the application being granted it shall be necessary to stake out the location, at least approximately, on the ground, and it shall not be conveyed to a dominion land surveyor, acting under instructions from the surveyor-general, within one year thereafter.

(b). If applications for mining locations are made within a township of which at least one boundary has been surveyed, to protect himself the discoverer may stake out his claim on one of the regular subdivisions, but before the issue of the patent, the claim shall, if required by the minister of the interior, be described by legal subdivisions or fractional portions thereof, upon a survey made by a dominion land surveyor, acting under instructions from the surveyor-general.

9. Where two or more persons lay claim to the same mining location, the right to acquire it shall be in him who can prove he was the first to discover the mineral deposit involved and to take possession, by denunciation, in the manner prescribed in these regulations, of the location covering it.

10. Priority of discovery alone shall not give the right to acquire; but a person subsequently and independently discovering, who has complied with the regular conditions prescribed in these regulations, shall have the precedence of the first discoverer if the latter has failed to comply with the said other conditions; provided, however, that in any case where it is proved that a claimant has, in bad faith, used the prior discovery of another, or fraudulently obtained the prior discovery, or that he has, by denunciation, be, shall, apart from other legal consequences, have no claim, and shall forfeit the deposit made with his application, and shall be absolutely debarred from obtaining another mining location.

11. Not more than one mining location shall be granted to any individual claimant upon the same lot or vein.

12. Where land is used or occupied for milling purposes, reduction works or other purposes, incidental to mining operations, either on the same lot or on an adjacent lot, and such land may be applied for and patented, either in connection with or separate from a mining location, in the manner herebefore provided for in the application for and the patenting of mining locations, and may be held in addition to any such mining location, but such additional land shall in no case exceed five acres in extent, and shall be paid for at the same rate as a mining location.

13. The minister of the interior may grant a location for the mining of iron not exceeding one hundred and sixty acres in extent, which shall be bounded by north and south and east and west lines, and its breadth and length shall be equal. Provided, that should any person making an application purporting to be for the purpose of mining iron thus obtain, whether in good faith or fraudulently, a mining location, and thereafter discover other than iron, his right in such deposit shall be restricted to the area herebefore prescribed for other minerals, and the rest of the location shall thereupon revert to the crown for such disposition as the minister may direct.

14. When there are two or more applicants for any mining location, no one of whom is the original discoverer or his assignee, the minister of the interior, if he sees fit to dispose of the location, shall invite then competitive bidders, or shall put it up to public sale, in the manner and on the terms hereafter provided.

15. An assignment of the right to purchase a mining location shall be indorsed on the back of the receipt or certificate of assignment (Forms F and G), in the schedule hereto, and the execution thereof shall be attested by the agent herebefore provided, upon the deposit of the receipt or certificate with such assignment executed and attested as herein provided, in the office of the agent, accompanied by a registration fee of \$2, the agent shall give to the assignee a receipt in the Form G in the schedule hereto, which certificate shall entitle the assignee to all the rights and privileges of the original discoverer in respect of the claim assigned, and the said assignment shall be returned to the minister of the interior by the agent at the same time and in the same manner as the original claim, and the same shall be registered in the department of the interior, and no assignment of the right to purchase a mining location which is not in accordance with all the provisions of the Act and regulations, and the rules and practice herein provided for, shall be recognized by the agent or registered in the department of the interior.

16. If application be made under the next preceding clause by the assignee of the right to purchase a mining location, and such claim shall be applicable to the mining of such minerals as herebefore provided, such assignee shall, by complying with these regulations, become entitled to purchase the location for the price and on the terms prescribed thereby.

PLACER MINING.

17. The regulations herebefore laid down in respect of quartz mining shall be applicable to placer mining so far as they relate to entries, entry fees, assignments, marking of locations, agents' receipts, and generally where they can be applied, save and except as otherwise herein provided.

NATURE AND SIZE OF CLAIMS.

18. The size of claims shall be as follows:—
(a). For "bar diggings," a strip of land one hundred feet wide at high-water mark, and thence extending into the river to its lowest water level.

(b). For "dry diggings," one hundred feet square.
(c). For "river claims," shall be one hundred feet long, measured in the direction of the general course of the stream, and shall extend in width from base to base of the hill or bench on each side, but when the hills or benches are less than one hundred feet apart the claim shall be one hundred feet square; provided, however, that in any case where the distance from base to base of the hill or bench exceeds ten chains, such claims shall be laid out in areas of ten acres each, the boundaries of such areas to be due north and south and east and west lines, and within surveyed territory the said area of ten acres shall consist of one-fourth of a legal subdivision, and shall be marked on the ground in the manner prescribed by these regulations for marking quartz mining locations; provided further, that any such claims intersected by creek or river shall, in addition to the same depth and showing the same length above it as the posts prescribed by these regulations in respect of quartz mining locations, and the said posts shall have marked upon them legibly, with a cutting instrument or with colored chalk, the name of the claimant in full and the date of such marking.

(d). "Bench claims" shall be one hundred feet square.
(e). Every claim on the face of any hill, and fronting on any natural stream or ravine, shall have a frontage of one hundred feet, and shall extend to the actual base of the hill, and shall be laid out, as nearly as possible, in the manner prescribed by Section 1 of these regulations.

19. If any person or persons shall discover a new mine, and such discovery shall be duly established to the satisfaction of the agent, claims of the following size, in dry, bar, bench, creek or hill diggings, shall be allowed:

To one discoverer	100 feet in length,
" a party of two	200 "
" " three	300 "
" " four	400 "

and to each member of a party beyond four in number, a claim of the ordinary size only.

A new structure of artificial earth or gravel, situated in a locality where the claims are abandoned shall, for this purpose, be deemed a new mine, although the same locality shall have been previously worked at a different level, and dry diggings discovered in the vicinity of bar diggings shall be deemed a new mine and vice versa.

RIGHTS AND DUTIES OF MINERS.

20. The terms of application for a grant for placer mining and the grant of the same shall be those contained in Forms H and I in the schedule hereto.

21. The entry of every holder of a grant for placer mining must be renewed and his receipt replenished and replaced every year, the entry fee being paid each time.

22. No miner shall be entitled to a grant of more than one mining claim in the same locality, but the same miner may hold any number of claims by purchase, and any number of miners may unite to work their claims in common upon such terms as they may arrange, provided such agreement be registered with the agent and a fee of \$5 paid for each registration.

23. Any miner or miners may sell, mortgage or dispose of his or their claims, provided such disposal be registered with and a fee of \$2 paid to the agent, who shall thereupon give the assignee a certificate in the Form E in the schedule hereto.

24. Every miner shall, during the continuance of his grant, have the exclusive right of entry upon his own claim, for the miner-like working thereof and the construction of a residence thereon, and shall have the exclusive right to the proceeds realized therefrom, but he shall have no surface rights therein, and the superintendent of mines may grant to the holders of adjacent claims such right of entry thereon as may be absolutely necessary for the working of their claims, upon such terms as may, to him, seem reasonable.

25. Every miner shall be entitled to the use of so much of the water naturally flowing through or past his claim, and not already lawfully appropriated, as shall, in the opinion of the superintendent of mines, be necessary for the due working thereof, and shall be entitled to drain his own claim free of charge.

26. A claim shall be deemed to be abandoned and open to occupation and entry by any person when the same shall have remained unworked for a period of six months, or when the space of seventy-two hours, unless sickness or other reasonable cause be shown or unless the grantee is absent on leave.

26. A claim granted under these regulations shall be continuously and in good faith worked, except as otherwise provided, by the grantee thereof or by some person on his behalf.

27. In tunneling under hills, on the frontage of which angles occur or which may be of an oblong or elliptical form, no party shall be allowed to tunnel from any of the said angles or from either end of such hills, so as to interfere with parties tunneling from the main frontage.

28. Tunnels and shafts shall be considered as belonging to the claim for the use of which they are constructed, and as abandoned or forfeited by the abandonment of the claim itself.

29. For the more convenient working of back claims on benches or slopes, the superintendent of mines may permit the owners thereof to drive a tunnel through the claims fronting on main creek, ravine or water-course upon such terms as he may deem expedient.

ADMINISTRATION.

30. In case of the death of any miner while entered as the holder of any mining claim, the provisions as to abandonment shall not apply either during his last illness or after his decease.

31. The minister of the interior shall take possession of the mining property of deceased and may cause such mining property to be duly worked or dispense therewith, at his option, and he shall sell the property by private sale or after ten days' notice thereof, by public auction, upon such terms as he shall deem just, out of the proceeds paid for the same, he shall pay to the heirs and by and pay the balance, if any, to the legal representatives of the said deceased miner.

32. The minister of the interior, or any person authorized by him, shall take charge of the property of deceased miners until the issue of letters of administration.

RED ROCK CLAIMS.

33. It shall be lawful for the minister of the interior, upon the application hereinafter mentioned, to grant to any bed rock flume company, for any term not exceeding five years, exclusive rights of way, through and entry upon any mining ground for the purposes of constructing, laying and maintaining bed rock flumes.

34. Three or more persons may constitute themselves into a bed rock flume company, and every application by them for such grant shall state the names of the applicants and the nature and extent of the privileges sought to be acquired. Ten full days' notice thereof shall be given between the months of June and November, and between the months of November and June on month's notice shall be given, affixing the same to a post planted in some conspicuous part of the ground or on the bed rock and a copy thereof conspicuously upon the inner walls of the land office of the district. Prior to such application, the ground included therein shall be marked out in the manner prescribed in regulations of the department, and the applicant shall be competent for any person to protest before the agent within the times hereinbefore prescribed for the notice of such application, but not afterward, against such application being granted. Every application for a grant of such rights of way, under the value of \$100, which shall be returned if the application be refused, but not otherwise.

35. Every such grant shall be in writing in the Form K, in the schedule hereto.

36. The holders of claims through which the line of the company's flume is to run may put in a bed rock flume in their claims to connect with the company's flume, upon giving the company ten days' notice in writing to that effect, but they shall maintain the flume grade and build their flume as thoroughly and of as strong materials as that built by such company.

37. Every bed rock flume company shall lay at least fifty feet of flume during the first year and one hundred feet annually thereafter until completion of the flume.

38. Any miners lawfully working any claims where a bed rock flume exists shall be entitled to run their sluices, hydraulics and ground sluices into such flume, but so as not to obstruct the free working of such flume.

39. Upon a grant being made to any bed rock flume company, the agent shall register the same and the company shall pay for such registration a fee of \$10. They shall also pay, in advance, an annual toll of \$10 for each quarter of a mile of right of way legally held by them.

DRAINAGE OF MINES.

40. The minister of the interior may grant to any person or persons permission to run a drain or tunnel for drainage purposes through any occupied mining land, and may give such persons exclusive rights of way, through and entry upon any mining ground for any term not exceeding five years, for the purpose of constructing a drain or drains for the drainage thereof.

41. The grantee shall compensate the owners of lands or interests of claims through which a drain or drains are to be run by the construction of such tunnel or drain, and such compensation, if not agreed upon, shall be settled by the superintendent of mines and be paid before such drain or tunnel is constructed.

42. Such drain or tunnel, when constructed, shall be deemed to be the property of the person or persons by whom it shall have been so constructed.

43. Every application for a grant shall state the names of the applicants, the nature and extent of the proposed drain or drains, the amount of toll, if any, to be charged and the privileges sought to be acquired, and shall, save where the drain is intended only for the drainage of the claim of the person constructing the same, be accompanied by a plan of the same, and if the application in case the application is refused, but not otherwise. Notice of the application shall be given and protests may be made in the same manner as provided in regard to bed rock flumes.

44. The grant of the right of way to construct drains and tunnels shall be made in the Form L, in the schedule hereto. The grant shall be registered by the grantee in the office of the agent, to whom he shall at the time pay a registration fee of \$5, or, if the grant gives power to collect tolls, a fee of \$10. An annual toll of \$10 shall be paid, in advance, by the grantee for each quarter of a mile of right of way legally held by him, save where the drain shall be for the purpose of draining only the claim of the person constructing the same.

DITCHES.

45. The minister of the interior may, upon application hereinafter mentioned, grant to any person or persons, for any term not exceeding five years, exclusive rights of way, through and entry upon any mining ground, for the purpose of constructing ditches and flumes to convey such water provided, always, that every such grant shall be deemed as appurtenant to the mining claim in respect of which it has been obtained, or is required in connection with reclamation works, sampling works, stamp mills, concentrating works, or other works connected with mining operations, and whenever the claim shall have been wholly or abandoned, or whenever the occasion for the use of such water upon the claim of the person with such works shall have permanently ceased, the grant shall be null and void.

46. Twenty days' notice of the application shall be given, in accordance with Form M in the schedule to these regulations, by affixing the same to a post planted in some conspicuous part of the land office of the district, and any person may protest within any such twenty days, but not afterward, against such application being wholly or partially granted.

47. Every application for a grant of water exceeding two hundred feet in length shall be accompanied by a deposit of \$25, which shall be returned in case the application is refused, but not otherwise.

48. Every such application shall state the names of the applicants, the nature of the diversion of the stream or lake to be diverted, the quantity of water to be taken, the locality for its distribution, the price, if any, to be charged for the use of such water, and the time necessary for the completion of the ditch. The grant shall be in the Form N in the schedule hereto.

49. Every grant of water, for less than one hundred rods, shall be subject to the rights of such miners as shall, at the time of such grant, be working on the stream above or below the ditch head, and of any other persons lawfully using such water for any purpose whatsoever.

50. If, after the grant has been made, any miner or miners locate and locate their works in mining claim below the ditch head, on any stream so diverted, he or they collectively shall be entitled to have such water at two hundred inches be diverted, and if three hundred or more inches be diverted, and no more except upon paying to the owner of the ditch, and all other persons interested therein, compensation on equal to the amount of damage sustained by the diversion of such extra quantity of water as may be required, and of compensation for such losses sustained by any claims using water therewith, and all other reasonable losses shall be considered.

51. No person shall be entitled to a grant of the water of any stream for the purpose of using the water to prevent an future claim holders on any part of such stream. The minister of the interior may, however, grant such privileges as he may deem just when such ditch is intended to work bench or full claims fronting on any such stream, provided that the rights of miners then using the water so applied be protected.

52. If the minister of the interior may, on the report of the superintendent of mines that such action is desirable, order the alteration or alteration of any ditch, and fix the compensation to be made by the parties to be so altered or improved.

53. Every owner of a ditch or water privilege shall take all reasonable means for utilizing the water granted to him, and if he willfully take and waste any unnecessary quantity of water, the minister may, if such offense be persisted in, declare all rights to be forfeited.

54. The owner of any ditch or water privilege may substitute the water to such persons and on such terms as he may deem advisable, within the limits mentioned in the grant, provided always that such substitution shall be made in such manner as shall make application therefor in a fair proportion, and shall not demand more from one person than from another, except as to the authority of supply as evidenced.

55. Every ditch or water privilege, or any stream, canal or other place, for any purpose, or to run under or through any ditch or flume, or to carry water through or over any land already occupied, may, in proper cases, do with the written sanction of the superintendent of mines, if the owner of the land or the party not in possession shall pay such as to entitle him to compensation if the same be just.

56. In measuring water in any ditch or sluice, the following rules shall be observed. The water taken into a ditch or sluice shall be measured at the ditch head, where the water shall be taken into a ditch or sluice except in a trough placed horizontally at the place where the water enters it, and which trough shall be extended two feet to avoid the effect of the discharge of the water, and the water shall be measured in a trough which shall pass through a rectangular orifice two inches high by half an inch wide, with a constant head of seven inches above the upper side of the orifice.

57. No ditch or water privilege shall be intended in forming or abolishing a ditch to extend upon and occupy any part of an unmined claim or to be, or become any earth or rock, or then to be part of any ditch not belonging solely to a registered owner of such claim. Three

days' notice, in writing, of such intention shall be given, before entering or approaching within ten feet of such other property.

55. Any person engaged in the construction of any road or work may, with the sanction of the minister of the interior, cross, divert or otherwise interfere with any ditch, water privilege or other mining rights whatsoever, for such period as the minister shall approve.

56. The minister shall order what compensation for every such damage or interference shall be paid, and when, and to whom, and whether any and what works damaged or affected by such interference as aforesaid shall be replaced by mines or otherwise repaired by the person or persons inflicting any such damage.

57. The owners of any ditch, water privilege or mining right shall, at their own expense, construct, secure and maintain all works necessary for the passage of water over the periods of water flowing through or over any such ditch, water privilege or right.

58. The owners of any ditch or water privilege shall construct and secure the same in a proper and substantial manner, and maintain the same in good repair, to the satisfaction of the superintendent of mines, and so that no damage shall occur to any road or work in its vicinity from any part of the works of such ditch, water privilege or right.

59. The owners of any ditch, water privilege or right shall be liable, and shall make good, in such manner as the superintendent of mines shall determine, all damages which may be occasioned or through any part of its works, by such ditch, water privilege or right breaking or being injured.

60. Nothing herein contained shall be construed to limit the right of the lieutenant-governor of the North-West Territories in council, or of the proper authority in any province containing Dominion lands, to the exercise of the powers conferred upon them, through, along or under any ditch, water privilege or mining right, without compensation.

GENERAL PROVISIONS.

INTERPRETATION.

61. In these regulations the following expressions shall have the following meanings respectively, unless inconsistent with the context: "Minister" shall mean the minister of the interior; "Agent" or "local agent" shall mean the agent of Dominion lands for the district or other office appointed by the government for the particular purpose referred to; "Mineral" shall include all minerals whatsoever other than coal and petroleum; "Close mining" shall mean the period of the year during which placer mining is generally suspended; "Miner" shall mean a person holding a mining location or a grant for placer mining; "Claim" shall mean the personal right of property in a placer mine or diggings during the time for which the grant of such mine or diggings is made; "Claimant" shall mean a person who has obtained an entry for a mining location with a view to patent; "Bar diggings" shall mean any mine over which a river extends when in its flooded state; "Dry diggings" shall mean any mine over which a river never extends; The mines on benches shall be known as "bench diggings" for the purpose of determining the size of such claims, be excepted from "dry diggings"; "Streams and ravines" shall include water-courses, whether usually containing water or not, and all rivers, creeks and gulches; "Ditch" shall include a flume or race, or other artificial means for conducting water by its own weight, to be used for mining purposes; "Ditch head" shall mean the point in a natural water-course or lake where water is first taken into a ditch; "Placer mining" shall mean the working of all forms of deposits, except the veins of quartz or other rock in place; "Quartz mining" shall mean the working of veins of quartz or other rock in place; "Location" shall mean the land entered by, or patented to, any person for the purpose of quartz mining.

HEARING AND DECISION OF DISPUTES.

62. The superintendent of mines shall have power to hear and determine all disputes in regard to mining property arising within his district, subject to appeal by either of the parties to the commissioner of the interior.

63. No particular forms of procedure shall be necessary, but the matter complained of must be properly expressed in writing, and a copy of the complaint shall be served on the opposite party not less than ten days before the hearing of the said complaint.

64. The complaint may be heard by the superintendent of mines, as amended at any time before or during the proceedings.

65. The complainant shall, at the time of filing his complaint, deposit therewith a bond of \$20, which shall be returned to him if the complaint proves to have been well founded, and not otherwise, except for special cause, by direction of the minister of the interior.

66. In the event of the decision of the superintendent of mines being made the subject of an appeal to the commissioner of Dominion lands, the appellant shall, at the time of lodging the appeal, deposit with the agent a bond of \$20, which shall be returned to the said appellant if his appeal proves to have been well founded, and not otherwise, except for special cause, by direction of the minister of the interior.

67. The appeal must be in writing and must be lodged with the superintendent of mines not more than three days after his decision has been communicated in writing to all the parties interested and must state the grounds upon which the said decision is appealed from.

68. If the commissioner of Dominion lands decides that it is necessary for a proper decision of the matter in issue to have an investigation on the premises of the disputed boundaries or measurements, to employ a surveyor to measure or survey the land in question, the expense of the inspection or re-measurements or testimony, as the case may be, shall be borne by the

litigants, who shall pay into the hands of the said commissioner, in equal parts, such sum as he may think sufficient for the same, before it takes place; otherwise, it shall not proceed, and the party who refuses to pay such sum shall be adjudged in default. The said commissioner shall subsequently decide in what proportion the said sum should be repaid to the party who is in default, and the surplusage, if any, shall then be returned to the parties, as he may order.

69. All bonds or deposits adjudged as forfeited and all payments retained under the last preceding section shall, as soon as decided, be then rendered, and all entry and other fees or moneys shall, as soon as they have been received by him, be paid by the said agent or commissioner to the credit of the receiver-general in the same manner as other moneys received by him on account of Dominion lands.

LEAVE OF ABSENCE.

70. The agent in each district shall, under instructions from the minister of the interior, declare the close season in his district.

71. Each holder of a mining location or of a grant for placer mining shall be entitled to be absent from his mining location or diggings and to suspend work thereon during the close season.

72. The agent shall have power to grant leave of absence to the holder of a mining location or grant for placer mining, pending the decision of any dispute in which he is concerned under these regulations.

73. In cases where water is necessary to the continuance of mining operations, and the supply of water is insufficient, the superintendent of mines shall have power to grant leave of absence to the holder of the grant during such insufficiency, but no longer, except by permission of the minister of the interior.

74. Any miner or miners shall be entitled to leave of absence for one year from his or their diggings, upon proving to the satisfaction of the superintendent of mines that he or they has or have expended on such diggings, in cash, labor or machinery, an amount not less than \$200 on each of such diggings, without any return of gold or other minerals in reasonable quantities for such expenditure.

75. The time reasonably occupied by the locator of a claim in going and returning from the office of the agent or superintendent of mines to enter his claim, or for other purposes prescribed by these regulations, shall not be counted against him, but he shall, in such cases, be deemed to be absent on leave.

MINERALS.

76. The minister of the interior shall, from time to time, as he may think fit, declare the boundaries of mineral and mining districts, and shall cause a description of the same to be published in the *Canada Gazette*.

77. If the minister of the interior may direct mineral and mining locations to be laid out within such districts wherever, from report of the director of the geological survey, or from other information, he has reason to believe there are mineral deposits of economic value, and may sell such lands to applicants therefor, when, in his opinion, are able and interested in good faith to work the same, or he may, from time to time, cause the said locations to be sold by public auction or tender. Such sales shall be for cash, and at prices in no case lower than those prescribed for locations sold to original discoverers, and shall otherwise be subject to all the provisions of these regulations.

78. The minister of the interior may grant to any person or persons who have a mining location and are actively developing the same, an additional location adjacent to, and not exceeding in area, provided the person or persons holding such location shall show to the satisfaction of the minister of the interior that the vein or lode being developed on the location will probably extend outside of either of the vertical lines forming the said boundaries of the location before it has reached the depth at which it cannot be profitably mined.

79. Persons desirous of obtaining quarries for stone on vacant Dominion lands may do so under these regulations, but the minister of the interior may require that a royalty not exceeding five per cent on account of the sales of the product of such quarries, or the land may be sold not subject to such royalty at such price as may be determined.

80. The miner or grantee, sworn to by him, or by his agent or other employee in charge of the mine, at monthly or other such intervals as may be required by the minister of the interior, of all products of his mining location and of the price and amount received for the same.

81. The minister of the interior shall have the power to summarily order any mining works to be so carried on as not to interfere with or endanger the safety of the public, any public work or highway, or any mining property, and any abandoned works may, by his order, be either filled up or guarded to his satisfaction, at the cost of the parties who may have constructed the same, or in their absence upon such terms as he shall direct.

82. The superintendent of mines, acting under instructions from time to time issued by the minister of the interior, shall cause to be laid out, at the expense of the person or persons applying for the same, a space of ground for deposits of leavings and dross from any tunnel, claim or mining ground.

FOURTH PART.

83. In the event of the breach of these regulations, or any of them, by any person holding a grant for quartz or placer mining from the crown other than crown patents, or from the minister of the interior, or from any duly authorized officer of Dominion lands, or of a grant shall be absolutely forfeited upon facta, and the person so offending shall be incapable thereafter of acquiring any such right or grant, unless for special cause it is otherwise decided by the minister of the interior.

SCHEDULE TO MINING REGULATIONS.

FORM A. APPLICATION AND AFFIDAVIT OF DISCOVERER OF QUARTZ MINE.

I (or we), (A, B, &c.) of hereby apply, under the Dominion mining regulations, for a mining location in there are several descriptions of locality for the purpose of mining for (here name the metal or mineral) and I (or we) hereby solemnly swear:

1. That I (or we) have discovered therein a deposit of (here name the metal or mineral), and

2. That I (or we) and (or are), to the best of my (or our) knowledge and belief, the first discoverer or discoverers of the said deposit.

3. That I (or we) and (or are) unaware that the land is other than vacant Dominion land.

4. That I (or we) did, on the day of mark out on the ground, in accordance in every particular with the provisions of Sub-clause (c) of Clause 4 of the said mining regulations, the location for which I (or we) make this application, and that in so doing I (or we) did not encroach on any mining location previously laid out by any other person.

5. That the said mining location contains, as nearly as I (or we) could measure or estimate, an area of acres, and that the description and sketch if any, of this date hereto attached, signed by me (or us), sets out forth in detail, to the best of my (or our) knowledge and ability, its position, form and dimensions.

6. That I (or we) make this application in good faith, to acquire the land for the sole purpose of mining, to be presented by my self (or us) or by myself and associates or by my (or our) assigns, sworn before me at this day of () [Signature]

NOTE. In case of abandoned ground it may be necessary to omit No. 2.

FORM B. RECEIPT FOR DEPOSIT PAID BY APPLICANT FOR MINING LOCATION.

No. DEPARTMENT OF THE INTERIOR, DOMINION LANDS OFFICE, Agency (S.)

Received from (A, B, &c.) of (S.), being the person required by Sub-section (c) of Clause 4 of the Dominion mining regulations, accompanying his (or their) application No. (S.) dated (S.) for a mining location in (insert specified description of locality).

The power and authority of the said (A, B, &c.) by his (or their) legal representatives or assigns, to render up to possession of the said mining location, and, subject to the payment of a fee of \$5 and the renewal of this form of receipt on or before the beginning of each year, during the term of five years from this date, to take therefrom and dispose of any mineral deposit contained within its boundaries, and, on due compliance at any time within that period with the several requirements in that behalf of the said mining regulations, entitles him (or them) to purchase the said location, which, provisionally, and until survey thereof, may be known and described as follows: (insert description of locality).

If the said (A, B, &c.) or his (or their) legal representatives or assigns, fail to comply, as aforesaid, with the conditions that would entitle him (or them) to purchase, within five years from this date, or, having so complied, do not within that time make payment in full for the land, and also pay the sum of \$50 prescribed in the said regulations for the survey of the location, then the right to purchase shall lapse, and the mining location shall revert to the crown, to be otherwise disposed of as may be directed by the minister of the interior.

Agent of Dominion Lands.

FORM C. RECEIPT FOR ANNUAL FEE FOR RENEWAL OF LOCATION CERTIFICATE.

DEPARTMENT OF THE INTERIOR, DOMINION LANDS OFFICE, Agency (S.)

Received from (A, B, &c.) of (S.), being the person required by Sub-section (c), Section 4, of the Dominion mining regulations, accompanying his (or their) application No. (S.) dated (S.) respecting the mining location described as follows: (insert description of locality) for which he (or they) obtained entry No. (S.) on the (S.)

From evidence furnished in support of the said application No. (S.) it would appear that (A, B, &c.) or his (or their) legal representatives or assigns, are entitled to continue in possession of the said mining location, and during the term of (S.) years from the (S.) to take therefrom and dispose of any mineral deposit contained within its boundaries, and, on due compliance at any time within that period with the several requirements in that behalf of the mining regulations, to purchase the said location, which, provisionally, and until survey thereof, may be known and described as above.

If the said (A, B, &c.) or his (or their) legal representatives or assigns, fail to comply, as aforesaid, with the conditions that would entitle him (or them) to purchase within (S.) years from this date, or, having so complied, do not within that time make payment in full for the land, and also pay the sum of \$50 prescribed in the said regulations for the survey of the location, then the right to purchase shall lapse, and the mining location shall revert to the crown, to be otherwise disposed of as may be directed by the minister of the interior.

Agent of Dominion Lands.

FORM D. CERTIFICATE IN CASES OF PARTNERSHIP THAT ANNUAL EXPENDITURE MAY FOR FIRST TWO YEARS AFTER RECORDING CLAIMS BE MADE ON ANY ONE OF THE CLAIMS AFFECTED BY SUCH PARTNERSHIP.

No. DEPARTMENT OF THE INTERIOR, DOMINION LANDS OFFICE, Agency (S.)

This is to certify that in accordance with the provisions of Sub-clause (d) of Clause 4 of the Dominion mining regulations:

(A, B, &c.) of (S.), who obtained entry No. (S.) for the mining location described as follows: (insert description of locality) on the (S.) day of (S.), (A, B, &c.) of (S.), who obtained entry No. (S.) for the mining location described as follows: (insert description of locality) on the (S.) day of (S.), and (E, F, &c.) of (S.), who obtained entry No. (S.) for the mining location described as follows: (insert description of locality) on the (S.) day of (S.), and (G, H, &c.) of (S.), who obtained entry No. (S.) for the mining location described as follows: (insert description of locality) on the (S.) day of (S.),

having complied with the conditions required by said Sub-clause (d) in so far that they have filed a certificate of a partnership entered into at (S.) day of (S.), and all their claims having been entered within three months of each other, and in accordance with the provisions of said Sub-clause (d), have filed the documents required, may make within one year from this date the annual expenditure required by each one of the mining locations aforesaid, amounting to \$ (S.), being the amount under said regulations required to be expended within the first and second year after said claims were located.

Agent of Dominion Lands.

FORM E. RECEIPT FOR DEPOSIT PAID BY APPLICANT FOR MINING LOCATION.

No. DEPARTMENT OF THE INTERIOR, DOMINION LANDS OFFICE, Agency (S.)

Received from (A, B, &c.) of (S.), being the person required by Sub-clause (c) of Clause 4 of the Dominion mining regulations accompanying his (or their) application No. (S.) dated (S.) respecting the mining location described as follows: (insert description of locality) for which he (or they) obtained entry No. (S.) on the (S.) day of (S.).

From evidence furnished by the said application No. (S.) it would appear that (A, B, &c.) or his (or their) legal representatives or assigns, are entitled to continue in possession of the said mining location, and during the term of (S.) years from this date, to take therefrom and dispose of any mineral deposit contained within its boundaries, and, on due compliance at any time within that period with the several requirements in that behalf of the said mining regulations, entitles him (or them) to purchase the said location, which, provisionally, and until survey thereof, may be known and described as above.

If the said (A, B, &c.) or his (or their) legal representatives or assigns, fail to comply, as aforesaid, with the conditions that would entitle him (or them) to purchase, within one year from this date, or, having so complied, do not within that time make payment in full for the land, and also pay the sum of \$50 prescribed in the said regulations, for the survey of the location, then the right to purchase shall lapse, and the mining location shall revert to the crown, to be otherwise disposed of as may be directed by the minister of the interior.

The said (A, B, &c.) and the mining location described as above are those referred to in No. Form D, dated at (S.) the (S.) day of (S.).

Agent of Dominion Lands.

FORM F. PATENT OF A MINING LOCATION.

Whereas, by the Act of God, of the United Kingdom of Great Britain and Ireland Queen, Defender of the Faith, to all to whom these presents shall come, bearing date

Know ye that We do by these presents, for Us, our heirs and successors, in consideration of the fulfilling of the Dominion mining regulations of our Dominion of Canada, give and grant unto (S.) heirs and assigns, all that parcel of lot of land situated (S.) and numbered (S.) on the official plan or survey of the said (S.) to have and to hold the said parcel of land and all minerals, provisions and base, which may be found therein unto the said (S.) heirs and assigns forever.

Provided, that it shall at all times be lawful for Us, our heirs and successors, or for any person by our authority, to resume the said parcel of land, or any part thereof, or any part of the said lands, for making roads, embankments, bridges, towing paths, or other works of public utility of convenience, but no such resumption shall be made of land on which any permanent buildings may have been erected.

Provided also, that it shall be lawful for any person or persons authorized by Us, our heirs and successors, to take and occupy such water privileges and to have and enjoy such right of way, water, over, through or under any parts of the hereditaments hereby granted, as may be reasonably required of land adjacent for other purposes in the vicinity of the said land, upon paying therefor a reasonable compensation to the donor said (S.) heirs and assigns.

FORM G. CERTIFICATE OF THE ASSASSINMENT OF A MINING LOCATION.

No. DEPARTMENT OF THE INTERIOR, DOMINION LANDS OFFICE, Agency (S.)

This is to certify that (A, B, &c.) of (S.) has, or have, filed an assignment in due form, dated (S.), and is accompanied by a registration fee of \$5 of the (S.) day of (S.).

(A. B. C.) of _____ to purchase the mining location in _____ (here insert a general description of locality) applied for by the said _____ (A. B. C.) is _____.

This certificate entitles the said _____ (B. C. D.) or his (or their) legal representatives or assigns, to all the rights and privileges of the said _____ (A. B. C.) in respect of the claim assigned and hereinafter described, that is to say, to enter into possession of the said mining location and during the term of _____ year from the date of the receipt No. _____ granted to the said _____ (A. B. C.) dated the _____ day of _____ 18____ to take therefrom and dispose of any mineral deposit contained within its boundaries, and on due compliance at any time within that period with the several requirements in that behalf of the dominion mining regulations, entitles him or them to purchase the said location, which, provisionally and until survey thereof, may be known and described as follows: (here insert description of locality.)

If the said _____ (B. C. D.) or his (or their) legal representatives or assigns fail to comply as aforesaid with the conditions that would entitle him or them to purchase within _____ year of the date of the receipt granted to _____ (A. B. C.) and now deposited with me, or, having so complied, do not within that time make payment in full for the land and also pay the sum of \$20 prescribed in the said regulations for the survey of the location, then the right to purchase shall lapse and the mining location shall revert to the crown, to be otherwise disposed of, as may be directed by the minister of the interior.

_____ Agent of Dominion Lands.

FORM B. APPLICATION FOR GRANT FOR PLACER MINING AND AFFIDAVIT OF APPLICANT.

I (or we), _____ (A. B. C.) of _____ hereby apply under the dominion mining regulations, for a grant of a claim for placer mining as defined in the said regulations, as _____ (here describe the locality), and I (or we) solemnly swear

1. That I (or we) have discovered therein a deposit of _____ (here insert the metal or mineral).

2. That I (or we) am (or are) to the best of my (or our) knowledge and belief, the first discoverer of the said deposit, or _____ (here insert the last discoverer).

3. That the said claim was previously granted to _____ (here insert the last grantee) but has remained unworked by the said grantee for not less than _____ year, and that I (or we) am (or are) aware that the land is other than vacant dominion land.

4. That I (or we) did, on the _____ day of _____ mark out on the ground, in accordance with every particular with the provisions of Subsection (c) of clause 15 of the said mining regulations, the claim for which I (or we) make this application, and that in so doing I (or we) did not encroach on any other claim or mining location previously laid out by any other person.

5. That the said claim contains, as nearly as _____ (I or we) can measure or estimate, an area of _____ square feet, and that the description and sketch, if any, of this date hereto attached, signed by me (or us), set forth in detail, to the best of my (or our) knowledge and ability, the position, extent and dimensions of the claim.

6. That I (or we) make this application in good faith, to acquire the claim for the sole purpose of mining, to be prosecuted by myself (or us), or by myself and associates, or by my (or our) assigns.

Sworn before me at _____ this _____ day of _____ 18____.

_____ [Signature.]
No. _____ DEPARTMENT OF THE INTERIOR,
DOMINION LANDS OFFICE.

_____ Agent. 18____
In consideration of the payment of \$5, being the fee required by the provisions of the dominion mining regulations, Clauses 4 and 26, by _____ (A. B. C.) of _____ accompanying his (or their) application No. _____ dated _____ 18____ for a mining claim in _____ (here insert a description of locality).

The minister of the interior hereby grants to the said _____ (A. B. C.) for the term of one year from the date hereof, the exclusive right of entry upon the claim _____ (here describe in detail the claim applied for) for the minor-like working thereof and the construction of a residence thereon, and the exclusive right to all the proceeds realized therefrom.

The said _____ (A. B. C.) shall be entitled to the use of so much of the water naturally flowing through or past his (or their) claim, and not already lawfully appropriated, as shall be necessary for the due working thereof, and to drain his (or their) claim, free of charge.

This grant does not convey to the said _____ (A. B. C.) any surface rights in the said claim, or any right of ownership in the soil covered by the said claim, and the said grant shall lapse and be forfeited unless the claim is continuously and in good faith worked by the said _____ (A. B. C.) or his (or their) associates.

The rights hereby granted are those laid down in the aforesaid mining regulations, and no more, and are subject to all the provisions of the said regulations, whether the same are expressed herein or not.

_____ Agent of Dominion Lands.

FORM C. CERTIFICATE OF THE AGENT OF A PLACER MINING CLAIM.

No. _____ DEPARTMENT OF THE INTERIOR,
DOMINION LANDS OFFICE.

_____ Agent. 18____
This is to certify that _____ (B. C. D.) of _____ has (or have) had an assignment in due form dated _____ 18____ and accompanied by a registration fee of \$2, of the grant to _____ (A. B. C.) of _____ to mine _____ (here insert the description of claim) for one year from the _____ day of _____ 18____.

This certificate entitles the said _____ (B. C. D.) to all the rights and privileges of the said _____ (A. B. C.) in respect of the claim assigned, that is to say, to the exclusive right of entry upon the said claim for the minor-like working thereof and the construction of a residence thereon, and the exclusive right to all the proceeds realized therefrom, for the remaining portion of the year for which the said claim was granted to the said _____ (A. B. C.) that is to say, until the _____ day of _____ 18____.

The said _____ (B. C. D.) shall be entitled to the use of so much of the water naturally flowing through or past his (or their) claim and not already lawfully appropriated, as shall be necessary for the due working thereof, and to drain the claim, free of charge.

This grant does not convey to the said _____ (B. C. D.) any surface rights in the said claim, or any right of ownership in the soil covered by the said claim, and the said grant shall lapse and be forfeited unless the claim is continuously and in good faith worked by the said _____ (B. C. D.) or his (or their) associates.

The rights hereby granted are those laid down in the dominion mining regulations, and no more, and are subject to all the provisions of the said regulations, whether the same are expressed herein or not.

_____ Agent of Dominion Lands.

FORM K. GRANT TO A BED-ROCK FLUME COMPANY.

No. _____ DEPARTMENT OF THE INTERIOR,
DOMINION LANDS OFFICE.

_____ Agent. 18____
In consideration of the payment of a deposit of \$100, required by clause 34 of the dominion mining regulations, to be made with the application of a bed-rock flume company, and of the further sum of \$50, being the fee for registration of this grant required by clause 39 of the said regulations, the minister of the interior hereby grants to _____ (here insert a name of company) forming together a bed-rock flume company (known as the _____ (name of company)) the following rights and privileges, that is to say:

(a) The right of way through and entry upon any new and unworked river, creek, gulch or ravine, and the exclusive right to locate and work a strip of ground one hundred feet wide and two hundred feet long in the bed thereof, to each individual of the company.

(b) The rights of way through and entry upon any river, creek, gulch or ravine, worked by miners for any period longer than two years prior to such entry, and already wholly or partially abandoned, and the exclusive right to stake out and locate and abandon portions thereof, to each individual of the company one hundred feet in width and one-quarter of a mile in length for each individual of the company.

(c) The rights of entry through and entry upon all claims which, at the time of the notice of application, are in good faith being worked for the purpose of cutting a channel and laying their line therein, with such reasonable space for constructing, maintaining and repairing the flume as may be necessary.

(d) The use of so much of the water of the said river, creek, stream on which they may be located, and of other adjacent streams, as may be necessary for the use of their flumes, hydro-power and machinery to carry on their operations, and the right of way for ditches and flumes to convey this water to their works, subject to the payment of any damage which may be done to other parties by running such ditch or flume through or over their ground.

Provided, that the rights herein granted shall apply only to such claims and streams as are here specified _____ (here insert a description of claims and streams) and such other claims and streams as may, after due notice and application, be subsequently added to the above list by the minister of the interior, under the hand of the local agent.

Provided, also, that the said company shall pay to the local agent, in advance, an annual rent of \$50 for each quarter of a mile of right of way legally held by them.

Provided, further, that this grant is subject to all provisions of the dominion mining regulations, in that behalf, whether the same are expressed herein or not.

This grant shall cease and determine at the expiration of _____ year from the date hereof.

_____ Agent of Dominion Lands.

FORM L. GRANT FOR DRAINAGE.

No. _____ DEPARTMENT OF THE INTERIOR,
DOMINION LANDS OFFICE.

_____ Agent. 18____

In consideration of the payment of a deposit of \$25, required by clause 43 of the dominion mining regulations, to be made with the application for a grant of right of way to construct drains, and of the further sum of \$ _____ being the fee for the registration of this grant required by clause 44 of the said regulations, the minister of the interior hereby grants to _____ (here insert a name of company) the following rights and privileges, through the occupied mining lands here specified _____ (here describe mining lands) and further, for the term of _____ from the date hereof, the exclusive rights of way through and entry upon the following mining grounds _____ (here describe locations) for the purpose of constructing a drain or drains for the drainage thereof, and the right to charge the following tolls for the use thereof _____ (insert tolls of tolls).

Provided, that the grantee or grantees shall construct such drain or drains of sufficient size to meet all requirements within the date hereof, and keep the same in thorough working order and repair, and free from all obstructions, and shall, within a reasonable time, construct a greater drain or drains, under any reasonable claims, upon being required by the owners thereof, and in default thereof shall permit such parties to make

which the owner or occupant shall be entitled. The notice mentioned in this section shall be according to a form to be obtained upon application from the agent of dominion lands for the district in which the lands in question lie, and shall, when practicable, be personally served on such owner or his agent if known, or occupant; and after reasonable efforts have been made to effect personal service without success, then such notice shall be served by leaving it at or sending by registered letter to the last place of abode of the owner, agent or occupant. Such notice shall be served if the owner or agent resides in the district in which the land is situated, ten days; if out of the district and within the province, twenty days; and if out of the province, thirty days, before the expiration of the time limited in such notice. If the proprietor refuses or declines to appoint an arbitrator, or when, for any other reason, no arbitrator is appointed by the proprietor in the time limited therefor in the notice provided for by this section, the agent of dominion lands for the district in which the lands in question lie shall, on being satisfied by affidavit that such notice has come to the knowledge of such owner, agent or occupant, or that such owner, agent or occupant willfully evades the service of such notice or cannot be found, and that reasonable efforts have been made to effect such service, and that the

notice was left at the last place of abode of such owner, agent or occupant, appoint an arbitrator on his behalf.

Sec. 51. (a) All the arbitrators appointed under the authority of these regulations shall be sworn before a justice of the peace to the impartial discharge of the duties assigned to them, and which the owners or occupants of such lands, according to their several interests therein, shall sustain by reason of such prospecting operations.

(b) In estimating such damages, the arbitrators shall determine the value of the land irrespective of any enhancement thereof from the existence of minerals therein.

(c) In case such arbitrators cannot agree, they must select a third arbitrator; the agent of dominion lands for the district in which the lands in question lie shall select such third arbitrator.

(d) The award of any two such arbitrators made in writing shall be final, and shall be filed with the agent of dominion lands for the district in which the lands lie.

A. M. BRUGGESS, Deputy of the Minister,
Department of the Interior, Ottawa.

DIGEST OF CORPORATION, LIEN AND MINING LAWS OF THE PROVINCES OF THE DOMINION OF CANADA

WITH THE MINERAL ACT AND PLACER MINING ACT OF BRITISH COLUMBIA IN FULL

1892

COMPILED EXPRESSLY FOR THE MINING DIRECTORY

BRITISH COLUMBIA CORPORATIONS

How FORMED. Any three or more persons, who may desire to form a company, may make, sign and acknowledge, before some person competent to acknowledge deeds, a memorandum of association in duplicate, in which shall be stated the corporate name, with the addition of the words "limited liability," the object, the amount of capital stock, the number of shares, the time of its existence (not to exceed fifty years), number of shares of which the stock shall consist, number of trustees and their names, who shall manage the company for the first three months, and the name of the city, town or electoral district where the company is located.

The registrar shall file such memorandum and in duplicate thereon to the provincial secretary, who shall cause the same to be published in the next issue of the *British Columbia Gazette*, at least one month thereafter. The registrar then shall issue a certificate of incorporation, thereupon the said persons and their successors shall be a body politic and corporate and shall by their corporate name have succession for the period limited in the said law.

1. To issue shares.
2. To sue and be sued.
3. To make and use a common seal.
4. To purchase, hold, sell and convey such real and personal estate as the purposes of the corporation shall require.
5. To appoint officers, agents and servants and define the duties, powers and the compensation thereof.
6. To require security from said officers, remove them at will, except that no trustee shall be removed except by a vote of two-thirds of the whole number of trustees.
7. To make by laws for the company and regulate its affairs within the purposes of the company.

The trustees of the company may also be termed directors, who shall have all the powers conferred upon the trustees by this act.

Each shareholder shall be individually liable to the creditors of the company, but shall be liable to the calls and assessments to be legally levied upon the shares held by him.

A certificate of incorporation shall be conclusive evidence that the company is duly registered under this act. All companies registered under this act shall have the additional powers to borrow money for the purpose of carrying out the objects of the company, and to mortgage their property, to sign bills, notes and contracts for money borrowed or to be borrowed for the aforesaid purposes, which powers shall not be exercised except with the consent of the shareholders representing two-thirds of the capital stock.

TRUSTEES. The corporate powers of the corporation shall be exercised by a board of not less than three trustees, who shall be stockholders and residents of this province, who shall be annually elected by the shareholders, a majority of the trustees shall be residents. A failure to elect the trustees at the designated time shall not dissolve the company, the trustees shall continue in office until the new trustees are elected under the by-laws, a majority of the whole board may transact business.

Stock AND STOCKHOLDERS. The stock of a company shall be deemed personal estate, transferable on the books of the company, but no transfer shall be made where there are charges or assessments unpaid. Stockholders' votes may be given either personally or by proxy, but the instrument appointing a proxy shall be delivered to the secretary twenty-four hours before the hour named for calling the meeting. Each shareholder shall be individually liable to the creditors of the company for the amount of the unpaid shares of stock of the company, a company incorporated under this act may increase or diminish its capital stock to any amount deemed proper for the corporation. Whenever it is desired to increase or diminish the amount of capital stock a

meeting of the stockholders may be called by a notice signed by at least a majority of the trustees and published at least once a week for four weeks in some newspaper of the electoral district where the principal place of business is located. A certificate of the proceedings shall be made out, signed and verified by the affidavit of the chairman and secretary of the meeting and certified by a majority of the trustees and filed in the same manner as the memorandum of the association. The trustees shall not declare or pay any dividends when the company is insolvent. No loan shall be made by the company to any shareholder, and it shall be made by the trustees and officers assenting thereto shall be jointly and severally liable to the company and to third parties to the extent of such loan. The trustees of the company shall be jointly and severally liable to laborers, servants and apprentices thereof for debts not exceeding three months' wages due.

ASSESSMENT, DELINQUENCY AND SALE OF STOCK. This act may be used to call assessments upon the capital stock for the purpose of paying the local expenses and outgoings of the company to the extent to be matter provided, and not otherwise. The total amount of assessments shall not exceed in the aggregate the value at which the shares were issued. No assessment or amount shall exceed ten per cent of the amount of the capital stock actually so issued, unless when all the powers vested in the company for the purpose of collecting shall have been exhausted or where the collection of the proceeds assessment has been restrained by law and of other cases. No assessment shall be levied except by order of the trustees, obtained in by a majority thereof. The trustees may summarily forfeit shares when non-payment of calls and assessments is not made.

Company Book. It shall be the duty of the trustees to keep a company book, containing the names of all persons who are stockholders, showing the number of shares of stock held by them respectively. Such book shall be open for the inspection of stockholders and creditors of the company at all times.

Dissolution. Any corporation may dissolve itself by presenting to the magistrates of the county court of the district a certificate of its proper officers, setting forth that it was ordered by a vote of two-thirds of all the stockholders to dissolve. The trustees shall then give notice of the order, which notice shall set forth the nature of the application, shall specify the time and place at which to be heard and shall be published in some newspaper once a week for four weeks, and if satisfied that the corporation has taken the necessary preliminary steps, it shall make an order declaring it dissolved.

PREFERENCE STOCK. The promoters of a company may state in the memorandum of association that a portion of the stock of the proposed company shall be preference stock, and in the memorandum shall set forth the division of the preference capital into ordinary and preference.

REGISTRATION OF FOREIGN COMPANIES. Any foreign company, incorporated for the purpose of carrying on any business that has for its object the acquisition of gain and permitted to operate in the province of British Columbia, may register itself and the members thereof under this act, it does so, but registration a copy of its act, certificate and charter of a corporation or certified copy of articles of association, and also the certificate of incorporation and assessments to be made on each share, and a notice, public or such foreign state, payable for registration. The registrar of joint stock companies shall issue a certificate of registration, showing the corporate name, the place of the company, the objects, the amount of the capital stock of the company, the number of shares, the amount of each share, and such certificate shall be published in our monthly in the *British Columbia Gazette* and in some paper in the locality where the company proposes doing business. Such a company may then sue and be sued by the corporate name and execute the same powers as a domestic corporation.

FEE TO BE PAID. For registering a copy of act, certificate and charter of incorporation, articles of association and assessments

certificate, \$50, for registering company's offices and name and address of its agent, \$50, for every miner's license, \$5 annually. IN CHANGE OF NAME.—A mining incorporated company has the right of changing its name, the attorney-general may, in order in council, change the name of the company. The company shall give at least three months' previous notice in the *British Columbia Gazette*, and in some newspaper published in the locality of the company, of the intention to apply for the change of name.

LIENS.

LIENS OF MECHANICS.—Where there is an agreement in writing to the contrary, every mechanic, artisan, architect, contractor, sub-contractor, builder, superintendent, timekeeper, mill-owner, merchant, laborer or other person doing work or furnishing material to be used in the construction or repairing of any building, erection of wharf, bridge or other works, or in connection with the clearing, excavating, filling, grading, draining or irrigating any land in respect to any railway, mine, sewer, drain, ditch, flume or other works, or improving any street, road or sidewalk adjacent thereto, at the request of the owner of such land, shall by virtue of such work or furnishing have a lien for the price of such work or materials upon such building, wharf, machinery, fixtures or other works and the land occupied thereby, but limited in amount as hereinafter mentioned. Such lien shall be limited in amount to the sum actually owing the person entitled to the lien. No contractor or sub-contractor shall receive anything under his lien until all the persons employed by him or engaged to furnish materials for his contract or sub-contract have been paid in full.

REGISTRATION AND TRANSMISSION. Every lien, as aforesaid, shall absolutely cease to exist after the expiration of thirty-one days after the work has been completed and materials delivered, or after claimant has ceased to work thereon or furnished materials therefor, unless he shall in the meantime file in the office of the government agent in the district wherein the land is situated an affidavit sworn to before any person authorized to take affidavits, stating in substance: (a) the name and residence of the claimant, the owner of the property and the intervening contractor or sub-contractor through whom he claims; (b) the particular kind of work or materials furnished; (c) the time when the work was finished or the last article of material delivered; (d) if the lien is for materials, that the same were purchased for the works or improvements in question and were delivered on the ground for that purpose; (e) the sum claimed to be owing when due; (f) the description of the property and interest to be claimed, which affidavit shall be filed and acknowledged by such property. In the event of the death of lien-holder, his lien shall pass to his personal representatives, and the right of lien may be assigned by any instrument in writing.

ENFORCEMENT.—During the continuance of any lien, no portion of the property affected thereby shall be removed, and any attempt at such removal may be restrained on application to the judge of the county court nearest to which the land is situated if the claim is not satisfied. An contractor or sub-contractor who fails to receive payment where the contract price exceeds \$500 until he shall have delivered to the owner a payroll containing the names of all workmen, laborers, lumber merchants and material-men doing work upon or supplying materials for such improvements, with the amount due therefor, and no payment by the owner to the contractor made before the expiration of thirty days after the completion of the improvements shall be valid for the purpose of defeating any lien upon such property, unless such payment has been distributed among such workmen and material-men.

ENFORCEMENT.—Any number of lien-holders may be joined in one suit and all proceedings brought by a lien-holder shall be taken to be brought in behalf of all lien-holders who may be made parties thereto, and the monies so realized shall be distributed among the lien-holders parties to such proceedings. Any lien-holder, not originally joined, may be made a party to such proceedings by order of a judge upon ex parte application, supported by an affidavit. Where the claimant is not satisfied with the judgment of the county court nearest to which the land claimed is situated, said judge may proceed in a summary manner by summons and order and may direct the sale of the estate charged in such other proceedings as he deems proper, and when so authorized by the court, the proceedings shall be as nearly as possible according to the practice in force in the county court, and when there are no guide the practice in the supreme court shall be followed. The said judge in his discretion may direct the sale of any machinery or improvements secured.

All money realized by proceedings under this act shall be applied as follows: First, to the costs of all the lien-holders at and incidental to the proceedings and of registering and proving the liens; second, to the costs of the lien-holder who has been paying one month's wages; if due, to all persons employed by the contractor doing manual labor for wages, and the balance shall be divided pro rata among the sub-contractors, material-men and laborers. After all sub-contractors, material-men and other persons employed by the contractor have been paid their fees and costs, the balance shall be paid to the contractor. Every person who has bestowed money, or skill or materials upon any chattel, so as to become entitled to a lien thereon, shall, while such lien exists, in case the amount retained for three months, have power to sell the same on giving two weeks' notice by advertisement in a newspaper published in the district, and after such sale, such person shall apply the proceeds of such sale in payment of the amount retained for the said three months, and the sale, and shall pay over the surplus to the person entitled thereto. An office copy of the order of the court declaring any lien, together with the certificate of the judge of the money having been paid in court or the order of the court for the satisfaction, discharge and acquittance pro rata of all claims and demands.

MINERAL ACT.

1. SHORT TITLE.—This act may be cited as the "Mineral Act, 1891."

2. INTERPRETATION.—In the construction of this act the following expressions shall have the following meanings respectively, unless inconsistent with the context:

"Mine" shall mean any land in which any vein or lode, or rock in place, shall be mined for gold or other minerals, precious or base, except coal.

"Rock in place" shall mean all rock in place bearing valuable deposits of gold, silver, chromium, lead, copper, iron or other minerals usually mined, except coal.

"Vein" or "lode" Whenever either of these terms is used in this act, "rock in place" shall be deemed to be included.

"Mineral claim" shall mean the personal right of property or interest in any mine.

"Mining property" shall include every mineral claim, ditch, mill-site or water-right used for mining purposes, and all other things belonging to a mine or used in the working thereof.

"Legal post" shall mean a stake standing not less than four feet above the ground, and squared or faced on four sides for at least one foot from the top, and each side so squared or faced shall measure at least four inches on its face so far as squared or faced, and any stump or tree cut off and squared or faced to the above height and size.

"Mill-site" shall mean a plot of ground located, as defined by this act, for the purpose of erecting thereon any machinery or works for transporting, crushing, feldching or sampling ores, or for the transmission of power for working mines.

"Streams" shall include all natural water-courses, whether usually containing water or not, and all rivers, creeks and gulches.

"Ditch head" shall include a flume, pipe or race, or other artificial means for conducting water by its own weight, to be used for mining purposes.

"Ditch head" shall mean the point in a natural water-course, or lake or other source where water is first taken into a ditch.

"Joint-stock miner" shall mean a person or joint-stock company or foreign company named in and lawfully possessed of a valid existing free miner's certificate, and no other.

"Record," "register" and "registration" shall have the same meanings, and shall mean an entry in some official book kept for that purpose.

"Full interest" shall mean any mineral claim of the full size, or one of several shares into which a mineral claim shall be equally divided.

"Judgment" shall include any suit or action.

"Decree" shall include "order" or "decree."

"Mineral" shall include all minerals, precious or base (other than coal, found in veins, lodes or rock in place, and whether such minerals are found separately or in combination with each other.

"Real estate" shall mean any mineral land held in fee simple under this or any act relating to gold mines, or to minerals other than coal.

"Joint-stock company" shall mean any company duly incorporated for mining purposes under the "Companies Act," (Companies Act, 1890,) and any company duly incorporated in British Columbia for mining purposes under the "Companies Act, 1892" (Mineral), and shall include all companies falling under the definition of a foreign company in the "Companies Act."

FREE MINERS AND THEIR PRIVILEGES.

3. QUALIFICATION.—Every person over eighteen years of age, and every joint-stock company, shall be entitled to all the rights and privileges of a free miner, and shall be considered a free miner, upon taking out a free miner's certificate. A free miner's certificate issued to a joint-stock company shall be issued in its corporate name. A free miner's certificate shall not be transferable.

4. DURATION OF CERTIFICATE.—A free miner's certificate may be granted for a term of not more than the date thereof, or may be for the expiration of the applicant's then existing certificate, upon the payment thereof of the fees set out in the schedule of fees to this act. Only one person or one joint-stock company shall be named therein.

5. FORTH OF.—A free miner's certificate shall be in the following form:

BRITISH COLUMBIA.
Free Miner's Certificate.

NOT TRANSFERABLE.

Date, _____ Valid for _____ year only. No _____

This is to certify that _____ has paid me this day the sum of _____, and is entitled to all the rights and privileges of a free miner for _____ year from the _____ day of _____, 18____.

(Signature of Gold Commissioner or Mining Recorder, as the case may be.)

6. APPLICANT FOR RECORDER'S OFFICE IN HIS ABSENCE.—If any person or joint-stock company shall apply for a free miner's certificate at the mining recorder's office during his absence, and shall leave the fee required by this act with the recorder or other person in charge of the said office, he or it shall be entitled to have such certificate from the date of such application, and any free miner shall at any time be entitled to obtain a free miner's certificate commencing to run at the expiration of his then existing free miner's certificate, providing that when he applies for such certificate he shall produce to the mining recorder, or in case of his absence shall leave with the officer or other person in charge of the mining recorder's office, such existing certificate.

7. "SUSPENDED OR DESTROYED CERTIFICATE."—If any free miner's certificate be accidentally destroyed or lost, the owner thereof may, on

and of all veins or lodes, throughout their entire depth, the top or apex of which lies inside of such surface-lines extended downward vertically, although such veins or lodes may so far depart from a perpendicular in their course downward as to extend outside the vertical side-lines of such surface location; but his right of possession to such outside parts of such veins or lodes shall be confined to such portions thereof as lie between vertical planes drawn downward from the surface of the claim, and extended to the location so continued in their own direction that such planes will intersect such exterior parts of such veins or lodes; and nothing in this section shall authorize the locator or possessor of a vein or lode which extends in its course downward as to extend outside the vertical lines of his claim to enter upon the surface of a claim owned or possessed by another; provided, always, that a prior location on the dip of a vein or lode shall have priority over a subsequent location on the same vein or lode, though such subsequent location may be upon the apex of the vein or lode; and provided, always, that in cases where the land in which such claim is situate is lawfully owned or occupied for other than mining purposes, the above section shall be read subject to the rights and interests of such owner or occupier. And it is hereby expressly declared that a location laid crosswise of a vein or lode, so that its center-line crosses the same instead of following the course thereof, will secure only so much of the vein or lode as it actually crosses at the surface, and the side-lines of the location will become the end-lines thereof, and the purpose of defining the rights of the owners. A location shall be deemed to have been laid crosswise when the smallest angle made by the center-line falling on the general course of the vein or lode is greater than forty-five degrees.

WHERE TWO OR MORE CLAIMS INTERSECT, THE FOLLOWING SHALL PREVAIL: Where two or more veins or lodes intersect or cross each other, on their downward dip, priority of title shall govern, and the prior location shall be entitled to all ore or mineral contained within the space of the vein or lode so intersected; and the subsequent location shall have the right of way through the said space of intersection for the purpose of the convenient working of the said subsequent location; and provided, also, that where two or more veins or lodes intersect on the downward dip, the oldest or prior location shall take the vein or lode below the point of union, including all the space of intersection.

33. RIGHT TO LODES DISCOVERED IN A TUNNEL. Where a tunnel is run for the development of a vein or lode the locators of such tunnel shall, in addition to any mineral claim legally held by him, have the right to all veins or lodes discovered in such tunnel; provided that the ground containing such veins or lodes be marked out by him as a mineral claim, and be duly recorded within fifteen days after such discovery, and that the said veins or lodes are not included in any existing mineral claim. Any money or labor expended in constructing a tunnel to develop a vein or lode shall be deemed to have been expended on such vein or lode.

34. INTEREST IN CLAIM A CHATTEL INTEREST. The interest of a free miner in his mineral claim shall, save as to claims held as real estate, be deemed to be a chattel interest, equivalent to a lease, for one year, and thenceforth to last for so long as the performance and observance of all the terms and conditions of this act.

35. PURCHASE OF MINERAL CLAIM. Any lawful holder of a mineral claim shall be entitled to a crown grant thereof on payment to the government of British Columbia of the sum of \$25 per acre in lieu of expenditure on the claim. The intending purchaser shall cause a notice of his intention to purchase to be inserted in the *British Columbia Gazette*, and in one newspaper circulating in the district in which the claim is situate, for sixty days prior to the issuance of the crown grant.

36. CERTIFICATE OF IMPROVEMENTS. Whenever the lawful holder of a mineral claim shall have complied with the following requirements, he shall be entitled to receive from the gold commissioner a certificate of improvements in respect of such claim.

(a.) Done or caused to be done work on the claim itself in developing a mine to the value of \$200, exclusive of all houses, buildings and other like improvements.

(b.) Found a vein or lode, and placed three posts of such claim.

(c.) Had the claim surveyed by an authorized provincial land surveyor, who shall have made three plats of the claim, and placed one such plat on the No. 2, or center-post of the claim, or on such post as near the center-post as he deems proper, and fully defined the boundaries of such claim by placing monuments or legal posts at the angles or corners of such claim, and who shall have also examined the work done on the mine itself for the development thereof, and the certificate of the fully the particulars of such work, exclusive of houses, buildings and other like improvements, and to the best of his belief the value of such work, and that a vein or lode has been found to exist on the claim.

(d.) Shall have posted on the same post as the said plat, and also on the outside of the office of the mining recorder, a legible notice in writing of his intention to apply for a certificate of improvements, and such notice shall contain—1. The name of the claim, 2. The name of the lawful holder thereof. The number of such holder's existing free miner's certificate, 4. His intention to apply for certificate of improvements at the end of sixty days, for the purpose of obtaining a crown grant. 5. The date of the notice.

(e.) Inserted a copy of such notice in the *British Columbia Gazette*, and in one newspaper circulating in the district in which the claim is situate, for at least sixty days prior to such application, which notice shall be made at any time after the posting of the notice on the claim.

(f.) Filed with the mining recorder, 1. Affidavit of the holder of the claim, or his agent, in Form H in the schedule of this act, 2. Affidavit of the said surveyor in Form G in the schedule of this act, 3. True copies of the plat of such claim, 4. The surveyor's original field notes.

37. CERTIFICATE NOT GRANTED WHEN CLAIM IS IN LITIGATION. Provided, nevertheless, that no certificate of improvements shall be granted in respect of a mineral claim the title to which is in litigation, or a certificate of improvements granted in respect of any such claim shall be null and void.

38. EFFECT OF CERTIFICATE OF IMPROVEMENTS. After the issuing and recording of such certificate of improvements, and when the holder of such certificate of improvements shall be deemed abandoned or forfeited on account of the holder thereof failing to take out a free miner's certificate, and it shall not be necessary to do any work thereon.

39. RECORD OF CERTIFICATE OF IMPROVEMENT ENTITLES OWNER TO CROWN GRANT. On the granting and recording of such certificate of improvements in respect of a mineral claim situate outside of the railway belt, the holder thereof shall be entitled to a crown grant of such claim without the payment of the \$25 per acre required by Section 35. And the granting and recording of such certificate of improvements in respect of a mineral claim situate inside the railway belt, the holder thereof shall be entitled to a crown grant of such claim on the payment of \$100 to the mining recorder.

40. APPLICATION FOR CROWN GRANT. The holder of a mineral claim for which a certificate of improvements has been granted and recorded shall make application for a crown grant to the mining recorder, in Form J of the schedule to this act, within three months from the date of such certificate of improvements, and in default of such application having been made within such time, such certificate of improvements shall lapse and become absolutely void.

41. TRANSFER OF CLAIM AFTER APPLICATION FOR CERTIFICATE. If the holder of a mineral claim, after applying for a certificate of improvements, shall sell and transfer such claim to another free miner, upon satisfactory proof of such sale and transfer being made to the mining recorder, the new holder of the claim shall be entitled to a certificate of improvements in his own name. And if a sale and transfer shall be made by any person or company after a certificate of improvements shall have been duly recorded, and before the receipt of the crown grant, made to the satisfaction of the chief commissioner of lands, and works, the crown grant shall issue to the new holder of the claim.

42. CROWN GRANT DOES NOT INVALIDATE A LEASE.—The issuance of a crown grant shall not invalidate any lease which may have been attached to any mineral claim previous to the issuance of such crown grant.

43. WHAT PASSES BY CROWN GRANT ON WASTE LANDS. A crown grant of a mineral claim located on any waste lands of the crown shall be deemed to be a grant of all minerals, precious or base (excepting coal), found in veins, lodes or rock in place, and whether such minerals are found separately or in combination with each other, in, upon or under the land in the said crown grant mentioned, including the rights set forth in Section 31 of this act.

44. WHAT PASSES BY CROWN GRANT WHEN ALL MINERALS (SAVE COAL) HAVE BEEN RESERVED. Crown grants of mineral claims located on land lawfully reserved to the crown, and entered, prospected and mined all minerals other than coal, has been reserved to the crown and its licensees shall pass to the grantee all minerals, precious or base, other than coal, found in veins or lodes, or rock in place, and whether such minerals are found separately or in combination with each other, which may be in, upon or under the land in the said crown grant mentioned, and including all the rights given to mineral claim holders of mineral claims so located in Section 31 of this act, but such crown grant shall expressly reserve the rights of such prior occupant.

Where the mineral claim is located on land lawfully occupied under a timber lease, the crown grant shall convey the surface and minerals, precious and base (save coal), found in veins, or lodes, or rock in place, but shall reserve the timber.

45. WHAT PASSES BY CROWN GRANT WHERE GOLD AND SILVER HAVE BEEN RESERVED. Crown grants of mineral claims located on lawfully occupied lands, the right whereon to enter and mine gold and silver has been surveyed and reserved to the crown, shall be deemed to be a grant to the grantee all gold and silver found in veins, or lodes, or rock in place, which may be in, upon or under the land in the said crown grant mentioned, and including all the rights given to mineral claim holders of mineral claims so located in Section 31 of this act, but such crown grant shall expressly reserve the rights of such prior occupant.

46. HOW ADVERSE CLAIMANT PROSECUTES HIS CLAIM. Should there be an adverse claimant for a mineral claim, or any part thereof, the applicant for the certificate of improvements, and the recording of the certificate of improvements, commence proceedings in some court of competent jurisdiction, with a view to determining the matters in dispute, and he shall prosecute the same to the end of the proceedings, and a failure to do so shall be a waiver of his adverse claim. And such claimant shall also give notice in writing to the gold commissioner or mining recorder of such adverse claim before the granting and recording of such certificate of improvements, and before the granting of such certificate of improvements, an action shall be brought with respect to the title to such claim except on the ground of fraud.

47. PARTICULARS REQUIRED TO BE FURNISHED BY ADVERSE CLAIMANT. On notice being given of any adverse claim and proceedings being brought, the applicant for the certificate of improvements may apply to the judge of the court in which such proceedings are brought for an order requiring the adverse claimant to file full particulars of his adverse claim, and, if such judge shall think fit, by an order made by him, require the said surveyor of any disputed ground, which particulars and plat shall be filed with the registrar of the court within a time to be fixed by such order. If such particulars and plat shall not be so filed within the time so allowed, such adverse claim shall be deemed a nullity, and such proceedings without shall be entered for the applicant for the certificate of improvements, provided, always, that

it shall be competent for such judge, by order, to extend the time for the filing of such particulars and plan, upon cause being shown. And any order for particulars or for extension of time made under this section may be made ex parte.

ANY PERSON CLAIMING A PORTION OF CLAIM. If an adverse claim shall only affect a portion of the ground for which a certificate of improvements is applied, the boundaries of such portion shall be shown by and under the entire adverse claim, and the applicant may relinquish the portion covered by the adverse claim, and still be entitled to a certificate of improvements for the undisputed remainder of his claim, upon complying with the requirements of this act.

ATTESTATION TO BE GIVEN. When judgment in such case is rendered by the court, a memorandum of such judgment shall be entered in the "Record Book," and if by any judgment the original boundaries of any claim shall be changed, a plat made by a provincial land surveyor and signed by the judge by whom the judgment has been given, shall be filed in the office of the mining recorder.

RECORDS OF DOCUMENTS FILED. Every conveyance, bill of sale, mortgage or other document of title relating to any mineral claim, mine held as real estate, or mining interest, shall be recorded within the time prescribed for recording mineral claims; provided, always, that the failure to so record any such document shall not invalidate the same as between the parties thereto, but shall not invalidate as to third parties that take effect from the date of record, and not from the date of such document.

VALID TRANSFER OF MINERAL CLAIM. No transfer of any mineral claim, or of any interest therein, shall be effectual unless the same shall be in writing, signed by the transferor or by his agent authorized in writing, and recorded by the mining recorder, and it signed by an agent, the authority of such agent shall be recorded before the record of such transfer.

TRANSFER OF CLAIMS BY A FREE MINER TO GOLD MINING ADVANCEMENT ACT, 1874. The transfer of any real estate acquired under the provisions of the "Gold Mining Amendment Act, 1874," or under this or any act relating to minerals, other than coal, shall be in writing, signed by the transferor or his agent authorized in writing, and must be by deed and recorded by the mining recorder.

DEATH OF FREE MINER. In case of the death of any free miner, his mineral claim shall not be open to forfeiture by any other person, either during his last illness or for the period of twelve months after his decease.

FAILURES OF GOVERNMENT OFFICIALS. No free miner shall suffer from any acts of omission, commission, or delay on the part of any government official, if such can be proven.

MILLSITES.

1. LOCATION OF. A free miner may locate any unoccupied and unreserved crown land not known to contain mineral, and not exceeding five acres, as a mill-site. No free miner shall hold at any one time more than one mill-site obtained by him under the provisions of this section, and such mill-site shall be held in the same form of a square. On locating a mill-site, the free miner shall comply with the following requirements:

a. Mark out the land by placing a legal post at each corner. *b.* Post a notice on each post, stating: *1.* The name of such free miner. *2.* The number of his free miner's certificate. *3.* His intention, at the expiration of six days from the date of the notice, to apply for the land as a mill-site. *4.* The date of the notice. *c.* Post a copy of such notice on the office of the mining recorder.

2. RECORDED MAY GRANT LEASE FOR ONE YEAR. On the expiration of sixty days after the fulfillment of the above requirements, the free miner shall deposit, in duplicate, a plat of the said land with the mining recorder, and prove by affidavit that he has complied with the above requirements; and that the said land is not known to contain minerals, and shall furnish such other proof of the non-mineral character of the land as the gold commissioner may require. The free miner shall then be entitled to a lease, for one year, of the said land, which lease shall be granted by the gold commissioner. If, during the continuance of such lease, such free miner shall prove to the satisfaction of the gold commissioner that he has put up or constructed, or has put up or constructed for mining purposes, on the said mill-site, of the value of at least \$200, he shall be entitled to a crown grant of such mill-site upon payment of 25 cents per acre for such land. Any free miner now having a lease of a piece of land for a mill-site, upon the site of the said mill-site, of the gold commissioner that he has put up or constructed works, or machinery for mining or milling purposes, on the said mill-site of the value of at least \$200, shall, on payment of 25 cents per acre, be entitled to a crown grant of such mill-site. *3.* Any free miner, on applying for a crown grant of a mill-site, the free miner shall:

1. Pay the sum of 25 cents per acre to the mining recorder. *2.* Deposit with the mining recorder the following documents: *a.* A plat of the mill-site, and of the land site, and of the surveyor's original field notes. *b.* A certificate from the gold commissioner that works or machinery for mining or milling purposes have been put up or constructed on the mill-site to the value of at least \$200. *c.* An affidavit to the mining recorder that the applicant holds no other mill-site obtained by him under this act.

3. WHAT PASSES BY CROWN GRANT OF. A crown grant of a mill-site shall pass to the grantee all the surface of the land in the said crown grant, including all such other land, and the right to expressly reserve all minerals under the said land, and the right to the crown and its licensees to enter and mine the said minerals.

TUNNELS AND DRAINS.

1. LICENSE TO RUN. Any free miner, being the holder of a mineral claim or mine held as real estate, may, at the discretion

of the gold commissioner, obtain a license to run a drain or tunnel, for drainage or any other purpose, connected with the development of such claim, or such claim, or mine, through any occupied or unoccupied lands, whether mineral or otherwise, upon security being first deposited or given to such gold commissioner to his satisfaction for any damage that may be done thereby, and upon such license the holder shall take the following precautions:

2. GRANT OF WATER RIGHTS. A free miner whose the holder of a mineral claim or mine held as real estate, or of any mill-site, may, at the discretion of the gold commissioner, obtain a grant to a water right, for any purpose, or for any mining or mining purpose, for any term not exceeding twenty years, upon such terms and conditions as such gold commissioner shall think fit.

3. WHAT MUST BE DONE BEFORE APPLYING FOR A GRANT. Before applying for any such grant, the free miner shall:

1. Post a notice in writing on a legal post upon some conspicuous part of the ground on which such water is intended to be used, and a copy of such notice on the office of the mining recorder for at least sixty days, which notice shall contain the following particulars: *a.* The name of each applicant. *b.* The number of each applicant's free miner's certificate. *c.* The name, or, if unnamed, a sufficient description of the stream, lake or other source from which such water is intended to be taken. *d.* The point of diversion or intended ditch head. *e.* The number of inches of water applied for. *f.* The purpose for which it is required. *g.* The date of the notice.

2. If more than three hundred inches are applied for, a deposit shall be made with the gold commissioner of 25¢ to be refunded if the grant is not made.

4. RECORD OF GRANT. The grant of such water right shall be recorded in the office of the mining recorder within the time limited for the recording of mineral claims, which time can be extended by the gold commissioner in his discretion.

5. No grant shall take effect until recorded.

6. PRIORITY OF NOTICE. On any dispute prior to such grant, priority of notice shall constitute priority of right.

7. No grant shall be made until recorded, shall speak from the date of the grant, and not from the date of the record.

8. RIGHTS OF MINERS WORKING ON THE STREAM. Every such grant shall be subject to the rights of such free miners as shall, at the date of such grant, be working on the stream above or below the ditch head, and of any other persons lawfully using such water for any purpose whatsoever, and such grant shall be deemed as appurtenant to the mineral claim, mine held as real estate, or mill-site in respect of which it is so granted, and shall not be subject to the claim of any other person working on or about, or whenever the occasion for the use of the water upon the claim, mine or mill-site shall have permanently ceased, the grant shall be at an end and determined.

9. A free miner who has a grant of a water right shall be entitled to any such grant of water for the purpose of selling such water, or of using the same otherwise than for the purpose for which the water was recorded.

10. COMMENCEMENT OF CONSTRUCTION OF WORKS. Within six months after the grant is made, the grantee shall commence the construction of the ditch or other works through which he intends to convey the water, and shall prosecute the same diligently and unintermittently to completion, and not interrupted by any season of the year, or by any other delays, that the gold commissioner may, in his discretion, allow such work to cease for any time, upon cause being shown. Upon the non-fulfillment of any of the conditions of this section the grant shall be null and void.

11. USE OF POWER OF DIVERSION. The gold commissioner shall, in his discretion, have power to allow a grantee of any water right to change the place of diversion, on giving such notice and complying with such terms as the gold commissioner may require.

12. WASTEFUL WASTE OF WATER. Every such grantee shall take all reasonable means for utilizing the water granted to him, and if he willfully waste any water, or take a quantity of water in excess of his requirements, the gold commissioner may declare his grant null and void.

13. POWER TO BRIDGE STREAM, ETC. Any person desiring to bridge any stream, claim or other place, for any purpose, or to mine under or through any ditch or flume, or to carry water through or over any land all such rights shall be subject to the right of the party first in possession, whether of the mine or of the water-right, is to prevail, so as to entitle him to compensation at the same be just.

14. RULES TO BE OBSERVED IN MEASURING WATER. In measuring water, in any ditch or flume, the following rules shall be observed: The water taken into a ditch or flume shall be measured at the ditch or flume head. No water shall be taken into a ditch or flume at a distance of more than twenty feet from the place at which the water enters it. One inch of water shall mean half the quantity that will pass through an orifice two inches high by one inch wide, with a constant head of seven inches above the upper side of the orifice.

15. NOTICE TO BE GIVEN ON APPROACHING ANY DITCH. Whenever a ditch shall be intended, in forming or upholding any ditch, to enter upon and occupy any part of a registered claim, or of mine held as real estate, or to dig or loosen any earth or rock within ten feet of any ditch or flume, the holder of such claim or mine shall be bound to give, before entering or approaching within twenty feet of such other property,

16. RIGHT TO ENTER UPON DITCH. Any person herebefore or hereafter engaged in the construction of any road or work may, with the sanction of the gold commissioner, cross ditches or other watercourses with any ditch, water right or other mining rights whatsoever, for such period as the said commissioner shall direct.

75. **OWNER TO PROVIDE FOR WASTE WATER.**—The owner of any ditch, flume or pipe shall, at his own expense, construct, secure and maintain all culverts necessary for the passage of waste water superfluous to water flowing through or over any such ditch, flume or pipe.

76. **OWNER TO KEEP DITCH IN REPAIR.**—The owner of any ditch, flume or pipe shall construct and secure the same in a proper and substantial manner and maintain the same in good repair to the satisfaction of the gold commissioner, so that no damage shall occur to any road or work in its vicinity, from any part of the works of such ditch, flume or pipe.

77. **OWNER TO SUE FOR DAMAGE.**—The owner of any ditch, flume or pipe shall be liable and shall make good, in such manner as the gold commissioner shall determine, all damages which may be occasioned by or through any parts of the works of such ditch, flume or pipe breaking or being imperfect.

78. **WHAT CONSTITUTE A WRITING NOTICE.**—If any written notice to the party intended to be affected thereby be posted for ten days on some conspicuous part of any premises referred to in such notice, and also in the office of the mining recorder, such notice shall be deemed good and valid.

79. **RENEWAL OF TERM FOR WATER-RIGHT.**—When the term for which any water-right has been granted shall have expired, the grantee thereof may, at the discretion of the gold commissioner, obtain a renewal of the same for a reasonable term, not to exceed ten years, provided the necessity for the use of said water for the purpose for which it was originally granted continues to exist.

80. **GOLD COMMISSIONER MAY LAY OUT ROADS, ETC.**—Nothing herein contained shall be construed to limit the right of the chief commissioner of lands and works to lay out, from time to time, the public roads of the province, across, through, along or under any ditch, water-right or mining right in any crown land, and without compensation, provided that as little damage as possible shall be done in so doing.

MINING PARTNERSHIP.

81. **APPLICATION.**—All mining partnerships shall be governed by the provisions hereof, unless they shall have other and written articles of partnership.

82. **TO BE ANNUAL.**—A mining partnership shall, unless otherwise agreed upon, be deemed to be a yearly partnership renewable from year to year by tacit consent.

83. **SCOPE OF.**—The business of the partnership shall be mining and such other matters as pertain solely thereto.

84. **RECORD OF.**—Mining partnerships shall register and record in the partnership name a mineral claim for each partner, but the name of every partner and the number of every partner's free miner's certificate shall be on the record of every such claim. The partner's name shall appear on every such record, and all the claims so taken up shall be the property of the partnership provided, always, that no free miner who is the member of a mining partnership, holding by right of location a mineral claim, shall be entitled to hold by right of location in his own name or in the name of any other partnership any interest in any other mineral claim on the same vein or lode on which the partnership claim is situated.

85. **FAILURE TO KEEP FREE MINER'S CERTIFICATE.**—Should any partner fail to keep up his free miner's certificate, such failure shall not cause a forfeiture, or act as an abandonment of the partnership claim, but the share of the partner who shall so fail to keep up his free miner's certificate shall become vested in his partners, pro rata, according to their former interests.

86. **PARTNER'S RIGHT TO VOTE.**—A partner in any mining partnership of his agent authorized in writing shall, at any meeting thereof, be entitled to vote upon any interest or fraction of an interest which he may hold therein, but the result of the votes given shall be determined by the number of the full interests voted upon, and not by the number of partners voting at such meeting.

87. **MAJORITY TO MAKE ASSESSMENTS.**—A majority of such votes may decide upon how long and in what manner to work the partnership claim, the number of men to be employed, and the extent and manner of levying the assessments to defray the expenses incurred by the partnership. Such majority may also choose a foreman or manager, who shall represent the partnership, and sue and be sued in the name of the partnership for assessments and otherwise, and he shall have power to bind them by his contracts. Every partner, or his duly authorized agent, shall be entitled to represent his interest in the partnership property by work and labor so long as such work and labor be satisfactory to the foreman or manager. In the event of such workman being discharged by the foreman or manager, the court having jurisdiction in mining disputes may, if requested, summon the foreman or manager, and upon hearing the facts make such order as it shall deem just.

88. **ASSESSMENTS TO BE PAID WITHIN THIRTY DAYS.**—All assessments shall be payable within thirty days after being made.

89. **DEFAULT IN PAYMENT OF ASSESSMENT.**—Any partner making default in payment, after receiving a notice specifying the amount due by him, shall, if such amount be correct, be personally liable therefor to the partnership, and the property of the partnership property may be sold by the partnership for the payment of the debt, and any further assessment that may have accrued thereon up to the day of the sale, together with all costs and charges occasioned by such default and the penalties and due to be ascertained to pay off the several sums mentioned, the court having jurisdiction in mining disputes, upon being applied to, shall issue an order directed to the sheriff to seize and sell any other personal property of the debtor, or of his sale, in either of the above cases, previously posted, thirty clear days prior to the day of sale, in the vicinity of such mining or

other property, and on the court-house or mining recorder's office nearest thereto. But if such partner be absent from the district such notices shall be posted as aforesaid sixty clear days before the day of sale, and a copy of such notices shall be sent by the mining recorder to the sheriff of the district wherein such mining or other property is situated. Such sale shall be by public auction to the highest bidder. The purchaser shall be entitled to possession of the property sold, and to a bill of sale therefor signed by the auctioneer; such bill of sale shall confer such title upon the purchaser as the owner had.

90. **EFFECT OF NOTICE OF ABANDONMENT.**—After a notice of abandonment in writing shall have been served on the foreman or manager of a partnership, such member thereof, and if recorded, such member shall not be liable for any debts or other liabilities of the partnership incurred after service and record of such notice, and no member shall be deemed to have abandoned an interest, until service and record of such notice.

91. **TITLE TO ABANDONED SHARE VESTS IN CONTINUING PARTNERS.**—Upon the abandonment of any share in a mining partnership, the title to the abandoned share shall vest in the continuing partners, pro rata according to their former interests.

92. **PARTNER MAY SELL HIS INTEREST.**—Any partner shall be entitled to sell or contract for the sale of his interest in the partnership property, but such interest shall continue liable for all the debts of the partnership.

93. **AFTER SALE, PARTNER NOT LIABLE FOR DEBTS OF PARTNERSHIP.**—No partner shall after a bill of sale conveying his interest has been recorded be liable for any indebtedness of the partnership incurred thereafter.

LIMITED LIABILITY.

94. **LIMITED LIABILITY.**—Any mining partnership composed of two or more free miners may limit the liability of its members, upon complying with the requirements following, that is to say: Upon filing with the mining recorder a declaratory statement, containing the name of the partnership, the location and size of every partnership claim, and the number of every such partner, and also placing upon a conspicuous part of every such claim, in large letters, the name of the partnership, followed by the words "Limited Liability."

95. **ADDITION TO COMPANY'S NAME.**—The words "Limited Liability" shall thereupon become part of the partnership name. 96. **EFFECT OF.**—After such conditions shall have been complied with, no member of such partnership shall be liable for any indebtedness incurred thereafter, beyond an amount proportioned to his interest in the partnership.

97. **ACCORDS TO BE KEPT.**—Every such partnership shall keep a correct account of its assets and liabilities, together with the names of the partners, and the interest held by each, and shall make out a monthly balance sheet showing the names of the partners, their accounts due to and from each other, the sum of the papers of the partnership; and such balance sheet and all the books of the partnership shall be open to the inspection of creditors at all reasonable hours.

98. **PARTNER MAY SELL.**—Every partner in such partnership shall be entitled to sell or contract for his interest therein, or of any part thereof, to any other free miner.

99. **AFTER SALE, PARTNER NOT LIABLE.**—No member of such partnership, after a bill of sale conveying his interest has been duly recorded, or after he has received a notice of abandonment of his interest, on the form, and left a copy thereof with the mining recorder, shall be liable for any indebtedness of the partnership incurred thereafter.

100. **DIVIDENDS.**—No such partnership shall declare any dividend until all its liabilities have been paid.

101. **APPOINTMENT OF FOREMAN.**—Every such partnership shall appoint a foreman or manager, who shall represent the partnership, who shall sue and be sued in the name of the partnership, and his contracts shall be deemed to be the contracts of the partnership.

102. **TO WHAT PARTNERSHIP IS LIABLE.**—No such partnership shall be liable for any other indebtedness than that contracted by its foreman or manager, or by its agent duly authorized in writing.

103. **FAILURE TO COMPLY WITH PROVISIONS.**—Should any such partnership fail to comply with any of the provisions of this act relating exclusively to "limited liability" partnership, such partnership shall, from the date of such failure, cease to be a "limited liability" partnership.

MINING RECORDERS.

104. **APPOINTMENT OF.**—The lieutenant-governor in council may appoint any person to be a mining recorder in and for any part of the province.

105. **ELECTION OF BY MINERS.**—Where mineral land is discovered in a province so situated that the provisions of this act as to free miners' certificates and records of mining property cannot be justly applied or enforced by reason of there being no gold commissioner of mining recorder in the locality, the sheriff of the county in which such locality is held may, at such times and places as may be agreed upon, and at such meetings, by a two-thirds vote, to appoint one of their number to issue free miners' certificates and to enter records of mining property, and such certificates and records shall be valid, not a forfeiture, informally therein, provided that all records so made, and all fees for the same in accordance with the schedule to this act, and a list of all free miners' certificates issued, and the date and term thereof, and the fees for the same, be forwarded to the gold commissioner or mining recorder as soon thereafter as practicable.

LOCATING, RECORDING, RE-RECORDING, WORKING AND LAY-OVERS.

20. **SHAPE OF CLAIM AND HOW MARKED.** Every placer claim shall be as nearly as possible rectangular in form, and marked by four legal corners at the four corners thereof, and at the center of the ground. One of such posts shall be marked as the "initial post," and on that post shall be placed a legible notice in writing, stating the name of the claim, its length in feet and general direction, with the date of the notice and the name of each locator. If any such line of any claim shall exceed one hundred feet in length, legal posts shall be placed along such side-line, at distances not exceeding one hundred feet.

21. **LOCATIONS MADE ON SUNDAY.** Any location made upon Sunday or any public holiday shall not for that reason be invalid, any law or statute to the contrary notwithstanding.

22. **DISPUTES.** In case of any dispute as to the title to a placer claim, the title to the claim shall be recognized according to the priority of such location, subject to any question as to the validity of the record itself, and subject further to the free miner having complied with all the terms and conditions of this act.

23. **RECORD OF CLAIM.** Every free miner locating a placer claim shall record the same with the mining recorder of the district or division within which the same is situate, within three days after the location thereof, if located within ten miles of the office of the said mining recorder. One additional day shall be allowed for making such record for every additional ten miles of fraction thereof. Such record shall be made in a book to be kept for the purpose in the office of the said mining recorder, to be known as the "Record Book," in which shall be inserted the name of the claim, the name of each locator, the number of each locator's certificate, the date of the claim, its length in feet, the period for which such record is granted, the date of location, and date of the record; provided that a free miner shall not be entitled to a record of a claim until he shall have furnished the mining recorder with a written statement of the above particulars.

24. **FORFEITURE.** After the recording of a placer claim, the removal of any post by the holder thereof, or by any person acting in his behalf, made for the purpose of changing the limits of his claim, shall constitute a forfeiture of the claim.

25. **RECORDS TO BE MADE.**—1. Upon the establishment of a mining division and the opening of a mining recorder's office therein, under the authority of this act, such office and none other shall be the proper office for recording all placer claims within such mining division, and making all records in respect thereof.

26. **RECORD IN WRONG DISTRICT.** If through ignorance any free miner shall record a placer claim in a different district or mining division to that in which the claim is situated, it shall not affect his title to such claim, but he shall, within fifteen days from the discovery of his error, record such claim in the district or mining division in which it is situate, and such new record shall bear the date of the first record, and a note shall be made therein of the error and of the date of the rectification of the same.

27. **DATE OF RECORD.** A free miner, having duly located a placer claim, shall be entitled to record the same for one or more years upon payment of the fees set out in the schedule to this act.

28. **RE-RECORD OF CLAIM.** A free miner shall, at any time during the existence of his record or re-record, be entitled to extend the term of his interest in his placer claim for one or more years, upon payment of the fees set out in the schedule to this act, by re-recording such claim. Such re-record shall be made in the record book, and shall set out: 1. The name of the claim, 2. The name of each holder of an interest in such claim, 3. The number of each such holder's free miner's certificate, 4. The locality of the claim, 5. The period for which such re-record is granted, 6. The date of the re-record.

29. **APPLICATION IN RECORDER'S ABSENCE.** If a free miner shall apply to a recorder, who is not employed at the office of the mining recorder's office during office hours, but during his absence, and shall leave the fee required by this act, and the particulars and information required by Section 23, with the officer or other person in charge of the office, and the claimant be entitled to have a record dated on the date of such application.

30. **SAME AS TO RE-RECORD.** If a free miner shall apply for a re-record, and shall make such application at the mining recorder's office during office hours, but during his absence, and shall leave the fee required by this act, and the particulars and information required by Section 28, with the officer or other person in charge of said office, he shall be entitled to have a re-record dated on the date of such application, but commencing to run from the expiration of the term of his first record.

31. **TERMS.** A free miner, having duly located and recorded a placer claim, shall be entitled to hold the same during the existence of his record or re-record of such claim upon complying with all the terms and conditions of this act.

32. **RIGHT OF MINER.** Every free miner shall have the exclusive right of entry upon his placer claim, for the miner-like work thereon, and the construction of a residence thereon, and shall be entitled to adversely affect the title to the claim, in the event provided, that the gold commissioner may, on application made to him, allow other free miners such rights of entry thereon as may be necessary for the working of their claims, upon such terms as may be him seem reasonable.

33. **RIGHT OF WAY.** In case of any dispute as to the title to a placer claim, no irregularity made prior to the date of the then current record or re-record of such claim shall affect the title thereto, and it shall be assumed that up to the date of such record or re-record the title to the placer claim, provided, always, that a shall at all times be open to prove that the ground was improperly or insufficiently staked, or that the stakes have been illegally moved.

34. **WORKS IN CONNECTION WITH CLAIM.** Tunnels, shafts and ditches shall be considered as belonging to the placer claim for the use of which they are constructed, and as abandoned or forfeited by the abandonment or forfeiture of the claim itself.

35. **TUNNELING IN TUNNELS.** RIGHTS OF OTHERS.—In tunneling under the surface of the ground, or in such manner, or in which may be of an oblong or elliptical form, no party shall be allowed to tunnel from any of the said angles, nor from either end of such hills, so as to interfere with parties tunneling from the main frontage.

36. **INTEREST IN PLACER CLAIM.** CHAPTER. INTEREST.—The interest of a free miner in his placer claim shall, save in the proper mines held as real estate, be deemed to be a chattel interest, equivalent to a lease, for such period as the same may have been recorded, renewable at the end thereof by re-recording, and subject to the conditions and restrictions as to working, re-recording, and otherwise, for the time being in force with respect to placer claims.

37. **HOLDER OF PLACER CLAIM NO RIGHT TO VEIN OR LODE.** The holder of a placer claim shall have no right to any vein or lode, as defined by the "Mineral Act, 1891," within the limits of such placer claim, unless he shall have located and recorded the ground as a mineral claim; and until he shall so locate and record such ground, the same shall be open to any free miner to locate and record as a mineral claim.

38. **DUTIES OF PLACER CLAIM HOLDERS.** Every placer claim as defined by this act shall be represented and bona fide worked by the holder thereof, or by some person on his behalf, continuously and in a profitable manner, during the term of his record, or absence, or during sickness, or for some other reasonable cause which shall be shown to the satisfaction of the gold commissioner.

39. **LEAVE OF ABSENCE.** Every free miner, or company of free miners, shall be entitled to a leave of absence for one year from his placer claim or set of claims:—(a.) Upon leaving to the gold commissioner that he or they have or have expended on such claim, or on any portion of the set of claims, in cash, labor or machinery, an amount equal to \$1,000 on each full interest, without any return of gold or other minerals in reasonable quantities from such expenditure; and (b.) Upon the application for such leave being signed by all the holders of the claim or set of claims. Such leave of absence shall not be deemed to relieve the holder of such claim or set of claims, from complying during the term of his absence with the provisions of this act respecting free miners' certificates, records and re-records of such claims; nor shall this section affect the discretionary power of the gold commissioner with respect to granting a leave of absence under other conditions.

40. **FORFEITURE ABSOLUTE.** Every forfeiture of a placer claim shall be absolute, any rule of law or equity to the contrary notwithstanding.

41. **NOT ENTITLED TO LAY-OVER.** No placer claim located and duly recorded in any district within fourteen days before or at any time during the close season shall be deemed to be laid over, unless some work shall have been bona fide done thereon by the holder thereof as shall, in the opinion of the gold commissioner, fairly entitle such claim to lay-over.

42. **LAY-OVER DURING INSUFFICIENCY OF WATER.** Where the supply of water is insufficient to work hydraulic or other placer claims requiring water to enable them to be worked, such claims shall be laid over by virtue of this section during such insufficiency, but no longer, except by leave of the gold commissioner; but the amount of such insufficiency of water must be posted on the office of the mining recorder within three days from the cessation of work.

43. **RECORD OF CHARGES ON CLAIMS.** Every bill of sale, conveyance or mortgage of a placer claim, or of any fraction thereof, shall be recorded within the time prescribed for recording placer claims.

44. **TRANSFERS.** No transfer of any placer claim, or of any interest therein, shall be enforceable unless the same or some memorandum thereof shall be in writing, signed by the transferor or by his agent authorized in writing, and recorded in the record book.

45. **GOLD MINING AMENDMENT ACT, 1873.** The transfer of any real estate acquired under the provisions of the "Gold Mining Amendment Act, 1873," shall be in writing, signed by the transferor or his agent authorized in writing, and attested by a subscribing witness.

TUNNELS AND DRAINS

46. **LICENSE TO MAKE.** Any free miner requiring to run or construct a tunnel or drain in connection with his claim through any occupied or unoccupied lands, whether mineral or not, shall obtain a license from the gold commissioner for that purpose, who, when he is granted such license, shall also give to the holder of such gold commissioner, and shall also give such security to the gold commissioner for any damage that may be caused by such tunnel or drain as such gold commissioner may require. Such license shall be in writing, and shall be recorded in the record book, and the gold commissioner shall think fit, and shall be recorded in the record book.

47. **TO BELONG TO CLAIM.** A tunnel or drain shall be considered as part of the placer claim of mine held as real estate, for which it is constructed.

48. **RIGHT OF WAY.** Any free miner may apply to the gold commissioner for a grant of right of way and entry through and upon any mining ground in his district, for the purpose of constructing a tunnel or drain.

49. **FORM OF APPLICATION.** The application for every such grant shall be in writing, and shall set out the name of each applicant, the nature and extent of the proposed drain, the amount of

MINING PARTNERSHIPS.

79. TO WHAT CLASS THIS SHALL APPLY.—All mining partnerships shall be governed by the provisions hereof, unless they shall have other and written articles of partnership.

80. TO BE ASSOCIATE.—A mining partnership shall, unless otherwise agreed upon, be deemed to be a yearly partnership, renewable from year to year by tacit consent.

81. SCOPE.—The business of such partnership shall be mining, and such other matters as pertain solely thereto.

82. RECORDS.—Mining partnerships, each location and record in the partnership name, placer claim or each partner who is a free miner. Such partnership claims may be located and recorded as a set of claims, and each such claim shall be staked as an ordinary placer claim. Care shall be taken on each such claim shall be made as an undivided stake, by putting thereon the words "Initial Post." It shall not be requisite to post more than one location notice on each set of claims, which notice shall be on the first initial post.

83. RECORD OF PARTNERSHIP CLAIMS.—A set of claims may be recorded in one record. The name of every partner, and the number of every partner's free miner's certificate, shall be on the record of every such set of claims. The partnership name shall appear on every such record, and all claims so taken up shall be the property of the partnership.

84. RIGHTS OF EACH PARTNER TO VOTE.—A partner in any mining partnership, or his agent authorized in writing, shall, at any meeting thereof, be entitled to vote upon any business, or fraction of an interest which he may hold therein, but the result of the votes given shall be determined by the number of the full interests voted upon, and not by the number of partners voting at such meeting.

85. MAJORITY DETERMINED BY VOTE OF PARTNERS.—A majority of such votes may decide when, how long and in what manner to work the partnership claim, or set of claims, the number of men to be employed, which number shall not be less than one man to each claim, and the extent and manner of levying the assessments to defray the expenses incurred by the partnership. Such majority may also choose a foreman or manager, who shall represent the partnership and sue and be sued in the name of the partnership for assessments and otherwise; and he shall have power to bind the partnership by his contracts. Every partner, or his duly authorized agent, shall be entitled to represent his interest in the partnership property by work and labor, so long as such work and labor be satisfactory to the foreman or manager. In the event of such partner or agent being discharged by the foreman or manager, the court having jurisdiction in mining disputes may, if requested, summon the foreman or manager before it, and upon hearing the facts make such order as it shall deem just.

86. ASSESSMENTS.—All assessments shall be payable within five days after being made.

87. SALE OF PARTNERSHIP PROPERTY TO PAY ASSESSMENTS.—Any partner making default in payment, after receiving a notice specifying the amount due by him, shall, if such amount be not paid, be considered to have sold his interest in the partnership property to the partnership for the payment of the debt, and any further assessment which may have accrued thereon up to the day of sale, together with all costs and charges on such default, and if the proceeds of the sale be insufficient to pay off the several sums mentioned, the court having jurisdiction in mining disputes, upon being applied to, shall issue an order directed to the sheriff to seize and sell any personal property of the debtor. Notices of sale shall, in either of the above cases, be conspicuously posted ten clear days prior to the day of sale, in the vicinity of such mining or other property, and on the court-house or mining recorder's office nearest thereto. But if such partner be absent from the district, such notices shall be posted as aforesaid thirty clear days before the day of sale, and a copy of such notice shall be published in some newspaper circulating in the district wherein such mining or other property is situated for the first period, such sale to be conducted by the highest and best bidder. The purchaser shall be entitled to possession of the property sold, and to a bill of sale therefor signed by the auctioneer, such bill of sale shall confer such title upon the purchaser as the law has provided.

88. EFFECT OF NOTICE OF ABANDONMENT.—After a notice of abandonment, in writing, shall have been served on the foreman or manager of a partnership by any member thereof, and duly recorded, such member shall not be liable for any debts or other liabilities of the partnership incurred after the filing and record of such notice, and no member shall be deemed to have abandoned an interest until service and record of such notice.

89. INTEREST WITH SURETY CONTRACTS LIABLE.—Any partner shall be entitled to sue and collect a bill of sale for his interest in the partnership property, but such interest shall continue liable for all the debts of the partnership.

90. PARTNER REFUSED TO SUE FROM FUTURE DEBTS OF THE PARTNERSHIP.—No partner shall be liable for any indebtedness his interest has been recorded, be liable for any indebtedness of the partnership incurred thereafter.

LIMITED LIABILITY.

91. Any mining partnership, composed of two or more free miners, and being free from all debts in respect of the partnership property, may limit the liability of its members, upon complying with the requirements hereof, that is to say, a person filing with the mining recorder a declaratory statement, containing the name of the partnership, the location and size of every partnership claim, and the particular interest of each partner, and also a clause, upon each set of claims, or set of claims, or set of claims, in large letters, the name of the partnership, followed by the words "Limited Liability."

92. "LIMITED LIABILITY" TO BE ADDED TO NAME.—The words "Limited Liability" shall thereupon become part of the partnership name.

93. EFFECT OF SAME.—After such conditions shall have been complied with, no member of such partnership shall be liable for any indebtedness incurred thereafter, beyond an amount proportioned to his interest in the partnership.

94. BOOKS TO BE KEPT.—Every such partnership shall keep a correct account of its assets and liabilities, together with the names of the partners, and the interest held by each, and shall make out a monthly balance sheet showing the names of the creditors, and the amount due to each, and file the same upon the papers of the partnership; and such balance sheet and all the books of the partnership shall be open to the inspection of creditors at all reasonable hours.

95. PARTNER MAY SELL HIS INTEREST.—Every partner in such partnership shall be at liberty to sell or dispose of his interest therein, or of any part thereof, to any other free miner; but such partner shall be liable for the indebtedness on the said interest in proportion to his interest in the partnership.

96. TO AVOID FUTURE DEBTS.—No member of such partnership, after a bill of sale conveying his interest has been duly recorded, or after he has served a notice of abandonment of his interest on the foreman, and left a copy thereof with the mining recorder, shall be liable for any indebtedness of the partnership incurred thereafter.

97. DIVIDEND.—No such partnership shall declare any dividend until all its liabilities have been paid.

98. RIGHTS OF FOREMAN.—Every such partnership shall appoint a foreman or manager, who shall represent the partnership, and who shall sue and be sued in the name of the partnership; and his contracts in relation to the business of the partnership shall be deemed to be the contracts of the partnership.

99. LIABILITY OF SUCH PARTNERSHIP.—No such partnership shall be liable for any indebtedness than that contracted by its foreman or manager, or by its agent duly authorized in writing.

BED-ROCK CLAIMS.

100. APPLICATION FOR RIGHT OF WAY.—One or more free miners may apply to the gold commissioner for a grant of extensive rights of way through and entry upon any mining ground in his district, for the purpose of constructing, laying and maintaining a bed-rock flume.

101. HOW APPLICATION IS MADE.—Every such application shall be in writing, and shall be left at the mining recorder's office, addressed to the gold commissioner, and shall state the name of the applicant and the nature and extent of the privileges sought to be acquired. Thirty days' notice of such application shall be given, by affixing the same to some conspicuous part of the ground on which the rights which are sought to be acquired, thereon upon the walls of the court-house or of the office of the mining recorder of the district. Prior to such application, such ground shall be marked out by legal posts, placed at intervals of one hundred feet, and the feet along the line of the flume, and of the flume, with a notice of such application affixed to one of such posts. And it shall be competent for any free miner to protest before the gold commissioner within such thirty days against such application being granted, but not after. Every application for a grant shall be accompanied by a deposit of \$125, to be left with the mining recorder, which shall be refunded if the application be refused, but not otherwise.

102. TERM.—Every such grant shall be in writing, signed by the gold commissioner, and shall be for a term not exceeding five years.

103. RIGHTS OF GRANTEE.—The grantee shall be entitled to the following rights and privileges, that is to say:—*(a.)* The right of way through and entry upon any new and unworked river, creek, gulch or ravine, and the exclusive right to locate and work a strip of ground one hundred feet wide and two hundred feet long in the bed thereof to such grantee named in such grant. *(b.)* The right of way through and entry upon any old and unworked river or ravine, worked by miners for any period longer than two years prior to such entry, and already wholly or partially abandoned, and the exclusive right to stake out and work both the unworked and the abandoned, along the line of the flume, and to locate and work one-quarter mile in length, for each grantee named in such grant. *(c.)* Such right of way through and entry upon any river, creek or ravine discovered within two years next preceding the date of his application before mentioned, and upon any portions of any free miner is legally holding and bona fide working a claim, as to the gold commissioner may see advisable. *(d.)* The right of way through and entry upon all placer claims which are at the time of the notice of application before mentioned bona fide being worked by any free miner, and the exclusive right of cutting a claim, and laying his flume therein, with such reasonable space for constructing, maintaining and repairing the flume as may be necessary, provided, that the owner of such last-mentioned placer claim be taken into consideration, and that the gold or other minerals found in the bed so made. *(e.)* The use of so much of the unappropriated water of the stream on which the flumes may be located, and of other adjacent streams, as may be necessary for the use of the grantee's flume, by means of cutting a claim, to carry on his mining operations, and the right of way for ditches and flumes to convey the necessary water to his works, subject to the payment of any damage which may be done to other parties by running such ditches or flumes through or over their ground. *(f.)* The right to take the gold or other minerals in his flume. *(g.)* No person locating new and unworked or abandoned ground within the limits of such grant, after the notice above mentioned has been given, shall have any right of title as against such grantee to the land so located.

104. CLAIM HOLDER MAY CONNECT WITH BED-ROCK FLUME.—A holder of a placer claim through which the line of the grantee's

granted and forfeiture declared by the gold commissioner, in the record book.

134. **OF WATER GRANTS.** The mining recorder shall record all water grants and extensions thereof in the record of water grants.

135. **OF ABANDONMENT.** Upon the receipt of a notice of abandonment, the mining recorder shall record the same in the record of abandonments, and file such notice, and write across the record of the claim affected by such notice, in the record book, the word "Abandoned," and the date of the receipt by him of the notice. If only an interest in a placer claim is abandoned, and not the entire claim, the memorandum in the record shall show which interest is abandoned.

136. **OF AFFIDAVITS.** The mining recorder shall record, by entering on verbatim, all affidavits and declaratory statements brought to him in connection with his office, in the record of affidavits.

137. **OF DOCUMENTS OF TITLE.** The mining recorder shall record, by copying on verbatim, in the record of conveyances, all conveyances, mortgages, bills of sale, contracts for sale and other documents of title, including notices of attorney or other authorities to execute all or any of the above description of documents, when brought to him for that purpose.

138. **OF OTHER DOCUMENTS.** The mining recorder shall record all other documents relating to mining property which may be brought to him for record, and shall file all such documents which may be brought to him for that purpose.

139. **ENTRY TO SHOW DATE.** Every entry made in any of the mining recorder's books shall show the date on which such entry was made.

140. **BOOKS OPEN FOR INSPECTION.** All books of record shall, during office hours, be open to public inspection free of charge, and documents filed shall be open to public inspection upon payment of the fees set out in the schedule of this act.

141. **OFFICE COPIES EVIDENCE.** Every copy of or extract from any entry in any of the said books, or of any document filed in the mining recorder's office, certified to be a true copy or extract by the mining recorder, shall be received in any court as evidence of the matters therein contained.

142. **FEES TO BE PREPAID.** Before issuing any free miner's certificate, or substituted certificate, or making any entry in any book of record, or filing any document, or making any copy or extract therefrom, the mining recorder shall collect the fees payable in respect thereof, as set out in the schedule to this act.

143. **RECORDER TO RECEIVE DOCUMENTS.**—The mining recorder shall receive all applications and other documents addressed to or intended for the gold commissioner, and forward the same to the gold commissioner.

144. **TO RECEIVE MONIES.** The mining recorder shall receive all monies or moneys directed to be made by this act, and apply the same as directed by this act.

145. **TO COLLECT RENT.** The mining recorder shall collect all rents collectible under the conditions of any lease or other documents granted under the provisions of this act.

146. **DISPOSITION OF MONIES COLLECTED.** The mining recorder shall deposit all monies or moneys collected for rents, fines, penalties and other moneys collected or obtained by him in accordance with the provisions of this act.

147. **RECORDERS OFFICE.** It shall be lawful for the lieutenant-governor in council to divide and subdivide any district into mining divisions, and to establish in each or either mining division a mining recorder's office.

148. **EFFECT OF ESTABLISHING RECORD OFFICE.** Upon the establishment of a mining division, and the opening of a mining recorder's office therein, under the authority of the last preceding section, or of such other authority as may be deemed proper, the proper office for recording all placer claims, records, certificates, documents or other instruments affecting claims, placer mines held as real estate, or placer mining property situate within such mining division, and wherever, by this act or any act amending the same, anything is required to be done or to be done in the office of the gold commissioner or mining recorder of the district, it shall, if the same affects or concerns any claim, placer mine held as real estate, or placer mining property situate within a mining division, be done at, or in the office of the mining recorder of the mining division wherein such claim or mine or other mining property is situate. (b.) Upon the district or division of any mining recorder being divided or subdivided into mining divisions, it shall be the duty of such mining recorder to make, or cause to be made, a transcript of all the entries in all the books mentioned in Section 141 of this act, affecting claims, placer mines held as real estate or placer mining property, situate in each newly created mining division, and to file the same in the office of the mining recorder of such mining division, and such transcript shall be kept in such office as a part of the records of such office, and all transcripts of such records, certificates, documents or other instruments shall prima facie be deemed to be true copies of the said records, certificates, documents or other instruments of which they purport to be transcripts, and such transcripts or copies thereof, when certified by the mining recorder of the mining division in whose office they are kept, shall be admissible in evidence in all courts of law.

149. **GOLD COMMISSIONER TO HAVE ALL POWER OF MINING RECORDER.** When there shall be no mining recorder for a district or division, the duties of the mining recorder shall devolve upon the gold commissioner, and it shall at all times be lawful for the gold commissioner, in the discharge of the duties of the mining recorder, and the gold commissioner shall have all the powers of a mining recorder.

150. **OFFICE HOURS.**—The mining recorder's office shall be open upon all days excepting public holidays, from 10 A. M. to 4 P. M., and such times shall be deemed the office hours of his office.

GOLD COMMISSIONER.

151. **POWERS.**—It shall be lawful for the gold commissioner to perform the following acts in accordance with the provisions of this act:

(a.) He may lay over any or all claims, and may grant to any holder of a claim leave or absence for such period and reasons as he may think proper.

(b.) He may prescribe the number of miners who shall be required to work in prospecting a set of claims until gold in paying quantities is found.

(c.) For the more convenient working of back claims on benches or slopes, the gold commissioner may permit the owners thereof to drive a tunnel through the claims fronting. On any creek, ravine or water-course, upon such terms as shall seem expedient, provided that in tunneling under hills, on the frontage of which angles occur, or which may be of an oblong or elliptical form, no party shall be allowed to tunnel from any of the said angles, nor from either end of such hills, so as to interfere with parties tunneling from the main frontage.

(d.) He may mark out a space of ground for deposits of leavings and deals from any tunnel, claim or mining ground, upon such terms as he may think just.

(e.) He may extend the limits of a claim in "bench diggings," beyond the limits of the bench, but not to exceed one hundred feet square.

(f.) He may, in cases of disputed boundaries or measurements, employ a surveyor to mark and define the same, and cause the reasonable expense thereof to be paid by either or both of the parties.

(g.) He may permit or order mining posts to be moved.

(h.) He may summarily order any mining works to be so carried on as not to interfere with or endanger the safety of the public, any public work or highway, or any mining property, mineral claim, placer claim, bed-rock drain or bed-rock tunnel; and any party who may be by his order be either filled up or graded to his satisfaction, at the cost of the party who may have constructed the same, or, in his absence, upon such terms as he shall think fit.

(i.) He may, upon application made to him, allow a free miner such right of way upon any adjacent claim as may be necessary for the working of his claim, and upon such terms as may be to him seem reasonable.

(j.) He may grant licenses and rights of way for the purpose of constructing drains or tunnels, and may exercise such powers as are specified in Part III of this act.

(k.) He may grant water-rights, and renew the same, and declare the same forfeited, and grant all such privileges and exercise such powers as are specified in Part IV of this act.

(l.) He may grant rights of way for the purpose of constructing a bed-rock flume, and may extend the grant at its expiration, in accordance with Part VI of this act.

(m.) He may grant leases of placer mining ground, and of unappropriated water to work the same, and may grant renewals of such leases, and grant such privileges and exercise all such powers as are specified in Part VII of this act.

152. **"GOLD MINING AMENDMENT ACT, 1878."** Notwithstanding anything contained in the "Gold Mining Amendment Act, 1878," or in any crown grant issued under the said act, or under this or any other act, it shall be lawful for the gold commissioner, in his discretion, and with or without any terms or conditions, to allow to the owners of placer claims all such rights or privileges as may be held by them in relation to their claims, and such rights may be allowed in and over claims not so held, and owners of claims held as real estate shall be entitled to the same rights and privileges as owners of claims not so held.

153. **RIGHT OF POWER.** The gold commissioner shall have power to do all things necessary or expedient for the carrying out of the provisions of this act.

ADMINISTRATION.

154. **DECEASED MINER'S PROPERTY.** The gold commissioner shall take possession of the mining property of any deceased free miner, and may cause such mining property to be duly worked, or may do all things necessary or expedient for the carrying out of the provisions of this act.

155. **ESTATE OF LESS THAN \$300.** The gold commissioner, or any person authorized by him, shall take charge of all the property of any deceased free miner until the issue of letters of administration or probate of the will, if any provided, however, that where any free miner shall die intestate, and the value of the personal estate of such deceased free miner is less than \$300, it shall not be necessary for the gold commissioner to obtain from any court letters of administration, but in such case the gold commissioner may administer and wind up the personal estate of the deceased, and do all things necessary and proper therefor, and act in all respects as if letters of administration to the personal estate of such deceased free miner had been granted to such gold commissioner, and the gold commissioner shall be protected in all his acts, in such estate of which he shall undertake the administration, before a judge of the county court of the district.

COUNTY COURTS.

156. **RETURN OF PROCEEDINGS, FORMS AND COSTS.** See Sections 149 to 164 of mining act, preceding.

MANITOBA

Compiled by HUGH & CAMPBELL, Barristers, etc. Office,
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INCORPORATIONS.

LETTERS PATENT OF INCORPORATION. All companies, except railway and insurance companies, are created either by special act of parliament or by letters patent issued under the provisions of the "Manitoba Joint Stock Companies Act" by the lieutenant-governor in council. The following powers are required, the latter of which are always adopted.

The applicants for letters patent must give one month's previous notice to be inserted once in the *Manitoba Gazette* of their intention to apply for the same, stating therein, first, the proposed name of the company, which shall not be that of any other company; second, the object for which incorporation is sought, third, the place within the province where its operations are to be carried on, fourth, the capital stock, fifth, the number of shares and the amount of each share, sixth, the name in full of the names of not less than three nor more than nine of their number, who are to be the first directors of the company. The application is made in petition of not less than five persons, and further state the amount of stock taken by each of the applicants, and also the amount, if any, paid in upon the stock of each applicant, and whether in cash or transfer of property or otherwise. From the date of the petition the persons therein named and their successors shall be a body corporate and politic by the name therein mentioned, and the powers therein mentioned shall be exercised subject to the provisions of the said act.

COMPANIES, ETC. BY SPECIAL ACT. The company must incorporate within three years after the charter is granted, and in the event of non-user during three years at any one time the charter is forfeited. No company shall commence business until at least ten per cent. of the capital stock subscribed actually paid up.

DIRECTORS. There shall be not less than three nor more than nine directors. The persons named in the letters patent shall be the directors of the company, until replaced by others who shall be duly elected by the shareholders at a general meeting held at some place within the province at such time, in such wise and for such terms, not exceeding two years, as the letters patent or the by-laws of the company may prescribe.

The directors shall have full power to transact, administer the affairs of the company, second, to make contracts authorized by the by-laws of the company, third, to make by-laws not contrary to law or the letters patent regulating the allotment of stock, making of calls and payment of the same, the issue and registration of calls and payment of the same, the forfeiture of stock for non-payment, the disposal of forfeited stock, the transfer of stock, the payment of dividends, the number of directors and their terms of service, the amount of their stock, the appointment, the appointment, the removal of all agents, officers and servants of the company, the security to be given by them to the company, their remuneration, the time at which and the place where the annual meeting of the company shall be held, the board of directors, and special meetings of the company, the board of directors, and the procedure in all things at such meetings, and the conduct in all other particulars of the affairs of the company, but every such by-law and every repeal, amendment or re-enactment thereof, unless confirmed at a general meeting called for the purpose, shall have effect only until the next annual meeting of the company.

DIVIDENDS. Directors shall not declare a dividend when a company is insolvent, of which renders the company insolvent or reduces the capital stock and they shall be jointly and severally liable for the wages of all servants, laborers and apprentices, excluding the officers of the company, not exceeding one year, for services performed for the company while they are directors respectively.

CAPITAL STOCK. The capital stock of the company shall not exceed five hundred thousand dollars. \$500,000. When the whole of the stock has been subscribed and this paid in full, but not sooner, the directors may make a by-law for increasing the capital to any amount which they may consider requisite, not exceeding one million dollars. \$1,000,000, but no by-law for increasing or decreasing the capital shall have effect until it is confirmed by a vote of at least two-thirds of the value of the shareholders at a general meeting duly called for considering the same and it shall afterwards be confirmed by a supplementary letters patent.

LIABILITY OF SHAREHOLDERS. Each shareholder, until the whole amount of his stock is fully paid up, shall be individually liable to the creditors of the company, but shall not be liable as such for any act, default or liability whatsoever of the company, or for any claim, engagement, payment or other debt or thing relating to or connected with the company beyond the unpaid amount of his respective shares in the company. Trustees or mortgagees of stock or persons holding stock as collateral security shall not be personally subject to liability as shareholders.

CALLS. The directors may call in all subscribed stock in such manner as the letters patent or by-laws of the company may require or allow. Interest at a per cent. on the unpaid calls from the date called for shall not be less than ten per cent. shall be payable within one year from incorporation. The company may enforce payment of calls by action in any competent court, or the directors may summarily forfeit any shares for non-payment, and the same may be sold by public auction. Shares shall not be transferable until all unpaid calls are fully paid, or until declared forfeited, and no share

holder in default for non-payment of calls shall be entitled to vote at any meeting of the company.

TRANSFER OF STOCK. Books must be kept wherein are entered all transfers of stock as presented to the company, with the date and other particulars of each transfer. The directors may refuse to allow the entry in such book of any transfer of stock whereon any call has been made which has not been paid in.

CONTRACTS. All contracts, agreements, engagements or bargains made and every bill of exchange or promissory note drawn, accepted or indorsed on behalf of the company by any agent, officer or servant in accordance with his powers under the by-laws of the company, or otherwise, shall be binding upon the company, and in no case shall it be necessary to affix the seal of the company.

POWERS OF THE GENERAL ASSEMBLY, ETC. Every company may, subject to any limitations contained in the letters patent, acquire, hold, alienate and convey real estate requisite for uses of the company or of the undertaking, and may take and hold such lands and tenements, real and personal property, as it may have been mortgaged or conveyed to it by way of security, and may retain the same for a period not exceeding ten years.

BORROWING POWERS. In case a by-law authorizing same is sanctioned by a vote of not less than two-thirds in value of the shareholders at a general or special general meeting, to be called for the purpose, the directors may borrow money upon the credit of the company, and issue the bonds, debentures or other securities of the company, and may sell the same, and the same may be redeemed or repaid in any manner or by any means. No debenture shall be for less than one hundred dollars. \$100. The directors may in a similar manner hypothecate, mortgauge or pledge the real or personal property of the company to secure any sums borrowed for the purposes thereof.

ANNUAL STATEMENTS. Every company shall once or before the 1st day of February in each year make a duplicate list showing:

1. Names, addresses and callings of all shareholders, on the 1st of December preceding, with the number of shares held by each.
2. The names and addresses of the directors, secretary and treasurer of the company.
3. The amount of the capital stock and the number of shares in which it is divided.
4. The number of shares subscribed for and taken.
5. The amount of stock issued free of call, if any.
6. The amount of stock issued subject to call.
7. The amount of calls made on any share.
8. The total amount of calls received.
9. The total amount of calls unpaid.
10. The total amount of shares forfeited.
11. The total amount of shares which have never been allotted or taken up.
12. The total amount for which shareholders are liable in respect of unpaid stock respectively.

The said list must be verified by the oath of the president and secretary, and a copy thereof, properly signed in the company's head office in Manitoba and the other deposited in the department of agriculture and immigration.

LENS.

Every person furnishing materials to be used in the construction, alteration or repair of any building or erection, or erecting, furnishing or placing machinery of any kind, in, upon or in connection with any building, erection or mine, shall by virtue thereof have a lien in charge for the price of such machinery or materials upon such building, erection or mine, and the lands occupied thereby or connected therewith, provided that no lien shall exist for a less sum than twenty dollars. \$20.

The lien shall be limited to the estate or interest in such lands, buildings or erections of the person at whose instance or request such machinery or material were provided.

The lien is claimed by a statement of the amount shall be limited to the amount payable to the contractor by the owner.

REGISTRATION. Notice shall exist, unless and until a statement in which the claim is made is filed in the court of registration, and which statement may be filed during the progress of the work or within thirty days after its completion. The said statement of claim shall state:

1. The name and residence of the claimant, and of the reputed owner of the property to be charged, and of the person for whom the materials or machinery were provided, and the time or period within which the same were to be furnished.
2. The materials or machinery provided.
3. The sum claimed, as due or to become due.
4. The description of the land to be charged.

The statement must be verified by an affidavit of the person entitled to the lien, or one of them, if there be more than one.

The person entitled to such lien shall upon the filing of registration, if not deemed a purchaser pro tanto.

PROCEEDINGS TO REALIZE. Every such lien shall absolutely cease to exist, unless, within ninety days after its registration, proceedings shall have been instituted to realize the claim under the provisions of the "Mechanics' Lien Act" and it is pending registered in the proper land titles office.

When the claim is within the sum of two hundred and fifty dollars, \$250, proceedings shall be taken in the county court to enforce the claim, although, whether for more or less than the said sum of two hundred and fifty dollars, \$250, proceedings may be taken and instituted in the court of queen's bench on its equity side.

The court may then make sale of the estate in such manner in each case as it may think proper, and may also order the sale of the materials or machinery, and authorize the removal thereof, although fixtures.

If the land charged be incumbered, existing or created before the placing of the machinery or materials, such mortgage shall not have priority after the date of the agent's entry, and the actual value of such land at the time the improvements were commenced.

In cases where there are several lien-holders against the same property and the proceeds of the sale are insufficient to satisfy in full, said proceeds shall be distributed among them ratably and pari passu.

LIENS FOR CHATELAINS. The Manitoba statute known as "The Lien Note Act" provides as follows:

"From and after the seventh day of July, in the year one thousand eight hundred and eighty-six, receipt notes, hire receipts and orders for chattels given by bailees of chattels, where the condition of the bailment is such that the possession of the chattel shall pass, without any other stipulation therein acquired by the bailee, were and shall be only valid in the case of manufactured goods or chattels, which, at the time the bailment is entered into, have the manufacturer's name or some other distinguishing name painted, printed or stamped thereon or otherwise plainly attached thereon; and no such bailment shall be valid unless it be evidenced in writing, signed by the person thus taking possession of the chattel.

"Every manufacturer and his agents shall forthwith, on application, furnish to any applicant full information respecting the balance due on any such manufactured goods or chattels, and the terms of payment of such balance, and in case he or they refuses or refuse, neglects or neglect to furnish the information aforesaid, for such manufacturer or agent shall be liable to a fine of not less than ten dollars (\$10), or more than fifty dollars (\$50), on conviction before any justice of the peace."

MINING.

EXPLORATION. Any person may explore vacant dominion lands within the province of Manitoba not appropriated or reserved by government for other purposes, and may search for minerals, either by surface or by such means as he may deem proper, with the exception of coal with a view to obtaining a mining location for the same, but no mining location or claim shall be granted until actual discovery has been made of the veins, lodes or beds of mineral or metal within the limits of the location or claim.

TITLE. The absolute title to all the vacant and unsurveyed lands in Manitoba and the northwest territories of Canada at the date of the transfer, 1870, vested in the crown represented by the government of the Dominion of Canada, and all mining rights and locations in the province of Manitoba are regulated and controlled by the department of the interior at Ottawa and by an officer known as the superintendent of mines, resident at Winnipeg, N. W. T. Patents of discovery may be made over the mineral rights. In many cases such rights are reserved, although the practice at the present time is to make all crown grants absolute and unconditional, and to cover both surface and mineral rights.

QUARTZ MINING. A location of mining, except for iron, on veins, lodes or ledges of quartz shall not exceed fifteen hundred feet in length and six hundred feet in breadth. Any person having discovered a mineral deposit may obtain a mining location therefor in the following manner:

1. He shall mark the location on the ground by placing four wooden posts, one at each corner, driven at least eighteen inches into the ground, or built or supported by a mound or earthen structure, at least three feet in diameter at its base and eighteen inches high and showing that length above it. On the northeast angle post he shall mark legibly, with a cutting instrument or with colored chalk, his name in full, the date, and the letters, M. L. No. 1, on the northeast angle post the letters M. L. No. 2, and his initials, on the southwest angle post the letters M. L. No. 3, and his initials, and on the northwest angle post the letters M. L. No. 4, and his initials.

2. He shall then file with the superintendent the file with the agent for dominion lands of the district within which the location is situated a declaration under oath, which may be taken before a justice or a justice of the peace, or a commissioner for taking affidavits, setting forth the circumstances of his discovery and the locality and dimensions of the location as far as he may be, and shall with such declaration pay the agent the entry fee of five dollars (\$5).

3. The agent shall grant a receipt to such claimant, which shall authorize him or his representative or assigns to enter into possession of the location and subject to its renewal from year to year during the term of five years, to take therefrom and dispose of any mineral deposit, provided that during each of the five years after the first year he shall pay to the agent the sum of one hundred dollars (\$100) in actual mining operations on the claim.

The claimant may at any time before the expiration of the five years purchasing the same, continuing the same, or if he has not done so, each year after filing with the agent proof that he has expended not less than five hundred dollars (\$500) in actual mining operations on the same. On making the application to purchase he shall deposit with the agent fifty dollars (\$50) for the survey of the location by the government, and upon the receipt by the surveyor-general of the plans and field notes, and his approval thereon, a patent shall issue to the claimant. Priority of discovery shall not in all cases give the right to acquire if the original discoverer has failed to comply with the government regulations, but the first discoverer shall in all cases be entitled if he can prove possession by denunciation in the matter prescribed.

No more than one location shall be granted to any individual of the same kind on the same land.

ASSIGNMENTS. An assignment of the right to purchase a mining location shall be indorsed upon the back of the receipt or

certificate of assignment and the execution thereof attested by two disinterested witnesses. Upon the deposit of such receipt or certificate of assignment with the agent for dominion lands (\$2) the agent shall give to the assignee a certificate which shall entitle the assignee to all the rights and privileges of the original discoverer in respect of the claim assigned. All assignments must be unconditional and executed strictly in accordance with the regulations.

PLACER MINING. The size of the claim shall be as follows:

1. For "bar diggings" a strip of land one hundred feet wide at high water mark and thence extending into the river to its ordinary water level.
2. For "dry diggings" 100 feet square.
3. For "creek and river claims" 100 feet long measured in the direction of the course of the stream, and shall extend in width from bank to bank of the full or bench of each side, but when the hills or benches are less than one hundred feet apart the claim shall be one hundred feet square.
4. For "bench claims" one hundred feet square.
5. Every claim on the face of any hill and fronting on any natural stream or ravine shall have a frontage of 100 feet drawn parallel to the main direction thereof and shall be laid out as nearly as possible in the manner prescribed for quartz mining locations.

If any person or persons discover a new mine and such discovery shall be established to the satisfaction of the agent, claims of the following size in dry, bar, bench, creek or hill diggings shall be allowed:

1. For every discovery, three hundred feet in length; to a party of two, six hundred feet in length; to a party of three, eight hundred feet in length; to a party of four, one thousand feet in length, and to each member of a party beyond four in number a claim of the ordinary size.

Applications for grants of placer minings, renewals and assignments are in all respects the same as in quartz mining, and the regulations relating to quartz mining apply where applicable to placer mining. No miner shall receive a grant of more than one mining location in the same locality, but he may hold any number of claims by purchase.

ABANDONMENT, ETC.—A claim shall be deemed abandoned when the same shall have remained unworked on working days by the grantor or his representative for seventy-two hours, unless he can be shown or unless the grantee is absent on leave. The agent in each district shall declare the close season, and each holder of a mining location or a grant for placer diggings shall be entitled to work his claim during such close season. The agent may grant leave of absence pending the settlement of disputes, or where there is insufficiency of water, the superintendent of mines may also grant leave of absence for one year upon satisfactory proof that the miner has expended for the claim at least one hundred dollars in placer digging, and that any return of gold or other minerals in reasonable quantities for such expenditure.

DISPUTES. The superintendent of mines shall hear and determine all disputes in regard to mining property, subject to an appeal by either of the parties to the commissioner of lands at Winnipeg.

No forms of procedure are necessary, but the complaint must be reduced to writing and a copy served on the opposite party not less than seven days before the hearing. The complaint may be amended at any time by leave of the superintendent of mines.

A bond fee of twenty dollars (\$20) shall be deposited by the complainant at the time of filing his complaint, which shall be returned to him if he succeeds, but not otherwise.

If the decision of the superintendent of mines is appealed from notice to that effect must be drawn up stating the grounds of such appeal and filed with the superintendent of mines not more than three days after his decision is communicated to the parties interested, and a bond fee of twenty dollars (\$20) deposited with the agent at the same time, which will be returned to the applicant if successful, but not otherwise.

The holder of a mining location on the interior may grant a location for the mining of iron not exceeding one hundred and sixty (60) acres in extent, which shall be bounded by due north and south and east and west lines, and its breadth and length shall be ascertained by the agent.

The regulations relating to quartz mining shall in all cases, when applicable, govern iron locations.

COAL, LUMBS, LANDS. Claims containing anthracite coal may be sold at twenty dollars (\$20) per acre, and coking coals, if they may be sold at public competition, if the minister of the interior shall so decide.

Not more than three hundred and twenty (320) acres shall be sold to one applicant. The minister may grant permission to prospect for a period of six months on any such piece of land not exceeding three hundred and twenty (320) acres in extent. The person to whom such permission to prospect is given shall within one month thereafter commence operations and then dig to a depth of eight feet throughout the remainder of the period, and shall expend not less than two dollars (\$2) per day from the time of commencement, such permission to become void if operations cease for one week. The minister of the interior may on application extend the time limited for prospecting.

If the lands be not included in any surveyed township, the applicant shall stake out the same by placing at each angle or corner a stake or post four inches in diameter, and the remainder of the boundary line shall be marked by stakes or posts, and on each post he shall inscribe his name and the angle represented thereby, thus: "A. B. C. N. E. corner," or as the case may be, and with his application he shall forward to the minister of the interior, a map of the land as staked out, showing angles and bearings and showing thereon the best information in his power respecting the same, and all boundaries so staked out shall be due north

CORPORATIONS

Under Act of Assembly, Chapter 2, 1885.

[illegible]

no may be paid out of the charter of the company shall be forfeited by holding a special meeting of the shareholders of the company at any time within one year during three consecutive years at any time within three years after the expiration of the term of the charter. Any existing company may amend the foregoing provisions of this section by a resolution of the shareholders of the company to the act may apply to letters patent thereunder. The statement of the affairs and financial position of the company shall be made by the directors of the company at each general meeting. The directors of the company may from time to time issue the bonds of the company in such manner as they may think fit, and may from time to time redeem the same, with the concurrence by vote of a majority of the shareholders of the company, and may from time to time represent at a third in value of the shares of the company for that purpose. The amount of the special dividend shall not be less than one percent of the amount of the actual paid up stock of the company. The directors of the company may also be authorized under the provisions of this section to pay dividends to the shareholders of the company in full or in part to have priority as respects dividends and otherwise over ordinary stock.

MINING.

Acts of Assembly, 1891, Chapter 16

[illegible]

may be granted, provided that no more applications shall be received than there are areas of one square mile each within the area first applied for. The holder of a license to search may at any time before the expiration thereof select an area of one square mile from the land covered by the license for working the mines therein, the fee being \$20. A license to work shall be for a term of two years, from date of application, and may be extended to three years on payment of one-half the amount originally paid. Effective mining operations must be commenced within the term of the license. A license to work may be obtained in the first instance for the term of one year mentioned. The holder of a license to work is entitled to a lease of the premises covered by the license on or before the termination thereof.

LEASES. Leases of mines other than gold and silver are for the term of twenty years and may be renewed as hereinafter mentioned. A lessee of a coal mine is not authorized to assign or transfer his lease without the consent of the governor in council. A lease may be surrendered at any time. The governor in council may upon special circumstances authorize a lease of a larger area than one square mile. Leases of copper and lead mines convey all associated ores and metals. The act contains provisions for fixing the boundaries of mining areas under the supervision of the surveyor-general and in conjunction with lessees of adjoining areas within six months after the issuing of any lease. Quarterly returns are required to be made specifying the quantity of ore or mineral wrought or gotten, the amount of royalty assessed, and the number of days' labor, and the persons employed, and the number of days' work done. Such returns are required to be made under oath. The following royalties are payable to the government. Coal, 10 cents per long ton on the coal removed from the mine; copper, 4 cents upon every one per cent. of copper in each ton of two thousand three hundred and fifty-two pounds of copper ore sold or smelted, lead, 2 cents upon every one per cent. contained in each ton of two thousand two hundred and forty pounds of lead ore sold or smelted, iron, 2 cents on every ton of two thousand and two hundred and forty pounds of ore sold or smelted, tin and precious ores, five per cent. on their value. Leases of mines other than gold and silver may be renewed for twenty years, and also for a third period of twenty years, upon compliance with the provisions of the leases and of the mining act. Leases may be forfeited for non-compliance with the terms of the leases or for abandonment or failure to work effectually, but an appeal lies to the supreme court from the decision of the surveyor-general declaring a forfeiture. A lessee may be required to work down the ore of any land covered by a lease or license. Lessees are required to be registered in the crown land-office within one year from the time of application, otherwise the area shall be considered vacant. All privileges and other franchises relating to the title to any mines shall be recorded in the crown land-office. No lease or license shall be made covering granted lands within which the owner or his assignees shall have explored or commenced mining operations, or have passed or caused to be passed, without notice to such owner or assignee. The holder of a license to search may, on royalty under special circumstances. The owner of any land may procure a lease at any time, with the approval of the surveyor-general, to search for and mine therein manganese only. It must be borne in mind that under a lease of the old crown grants in this province all mines and minerals in the lands granted have been conveyed to the grantee, whose assignees now own them absolutely. In almost all the crown grants, however, mines and minerals were reserved.

ONTARIO

Compiled by ROBINSON & LANGLOIR, Barristers, Solicitors,
etc., 141 Portage, Ont.

CORPORATIONS.

LETTERS PATENT OF INCORPORATION. All companies are created either by special act of parliament or by letters patent issued under the provisions of "The Ontario Joint-Stock Companies' Letters Patent Act," by the lieutenant-governor in council, except railway companies. The names of the province of Ontario of some locality therein must constitute part of the name of every company incorporated under this act.

The applicants for letters patent must for at least four consecutive weeks before the date of the *ad hoc* *Gazette* of their intention to apply for the same, stating therein:

1. The proposed corporate name of the company, which shall not be that of any other known company, incorporated or unincorporated.
2. The object for which incorporation is sought.
3. The place or places within the province of Ontario where its operations are to be carried on, with special mention of its chief place of business.
4. The amount of capital stock.
5. The number of shares and amount of each share.
6. The name in full and address and calling of each of the applicants, with special mention of the names of not less than three of their number who are to be the first directors of the company.

At any time not more than one month after the last publication of the notice, the applicants may petition the lieutenant-governor in council for the provisional sanction for the issuance of the letters patent. The petition must state the facts in support of the application in the notice, and also the amount of stock taken by each applicant and the amount, if any, paid in upon the stock of each applicant.

and, whether the amount is paid in cash or by transfer of property, or how otherwise. In case the capital of the proposed company is \$20,000 or under, publication of the notice is not required. From the date of the letters patent the persons therein named and their successors shall be a body corporate and politic by the name mentioned therein.

POWERS OF COMPANIES TO HOLD REAL ESTATE, ETC.—Every company so incorporated may acquire, hold, alienate and convey real estate, subject to any restrictions or conditions in the letters patent set forth.

DIRECTORS. The affairs of every such company shall be managed by a board of not less than three directors, and the persons composing the board under the provisions of the letters patent of the company until replaced by others duly appointed in their stead. No person shall be elected or appointed a director thereat unless he is a shareholder, owning stock absolutely in his own right, and not in trust in respect of any call thereon. Directors shall be elected by the shareholders at a general meeting of the company assembled at some place within the province of Ontario, at such time, in such wise and for such term, not exceeding two years, as the letters patent or (in default thereof) the by-laws of the company may provide. The directors shall have full power in all things to administer the affairs of the company, and may make or cause to be made any description of contract which the company may by law enter into.

BY-LAWS. The directors may make by-laws not contrary to law or to the letters patent to regulate:

1. The allotment of stock; the making of calls thereon; the payment thereof; the issue and registration of certificates of stock; the forfeiture of stock for non-payment; the disposal of forfeited stock and the proceeds thereof; the transfer of stock.
2. The declaration and payment of dividends.
3. The number of directors, their term of service, the amount of their stock qualification.
4. The appointment, functions, duties and removal of all agents, officers and servants of the company; the security to be given by them to the company and their remuneration.
5. The time at which and the place where the annual meeting of the company shall be held; the calling of meetings, regular and special, of the board of directors and of the company; the quorum; the requirements as to proxies, and the procedure in all things at such meetings.
6. The imposition and recovery of all penalties and forfeitures by authority of regulation by-law.
7. The conduct in all other particulars of the affairs of the company. And they may from time to time repeal, amend or renew the same; but every such by-law and every repeal, amendment or re-enactment and re-enactment shall be in force until confirmed at a general meeting of the company duly called for that purpose, shall only have force until the next annual meeting of the company.

STOCK. The stock of the company shall be deemed personal estate, and shall be transferable in the same manner only. The directors may make a by-law for creating and issuing any part of the capital stock as preference stock, giving the same such preference and priority as respects dividends and otherwise, over ordinary stock as may be declared by the by-law. No share of stock shall be transferable until all previous calls thereon have been fully paid in or until declared forfeited for non-payment of calls thereon.

CALLS. The directors of the company may call in and demand from the shareholders thereof, respectively, all sums of money by them subscribed at such times and places and in such payments or instalments as the letters patent or by-laws or "The Ontario Joint-Stock Companies' Letters Patent Act" requires or allows. Not less than ten per cent. upon the allotted stock of the company shall be called in and made payable within one year from the incorporation of the company; the residue when and as the by-laws of the company direct. The company may enforce payment of all calls and interest thereon in any court of competent jurisdiction. If any director of the company shall neglect or refuse to call or pay any dividends when the company is solvent, or any dividend the payment of which renders the company insolvent or diminishes the capital stock thereof, but if any director present when such dividend is declared forthwith, or if absent, then within forty-four hours after he has become aware thereof and able to do so, enters his protest on the minutes of the board of directors and causes such protest to be published, such director may thereby, and not otherwise, exonerate himself from liability.

LIABILITIES OF DIRECTORS. Directors of the company are jointly and severally liable to the laborers, servants and apprentices thereof, for all debts not exceeding one year's wages due for services performed for the company while they are such directors and to the creditors of the company for an amount due thereon, unless the company has been sued therefor within one year after the debt became due, nor yet unless such director is sued therefor within one year from the time when he ceases to be such director, or until the expiration against the company of an action which has been returned unsatisfied in whole or in part, and the amount due on such execution shall be the amount recoverable with costs against such directors.

FORFEITURE OF CHARTER. The charter of the company shall be forfeited by the company during the first three years at any one time, or if the company does not go into actual operation within three years after its charter is granted.

LIABILITY OF SHAREHOLDERS. Each shareholder, until the whole amount of his stock has been paid up, shall be individually liable to the creditors of the company to an amount, not exceeding that not paid up thereon, but shall not be liable to an action therefor by any creditor before an execution against the company has been returned unsatisfied in whole or in part, and the amount due to the creditors, but not exceeding the amount so ascertained, and his said stock, shall be the amount recoverable with costs against such shareholder.

QUEBEC CORPORATIONS.

shafts or in other actual mining operations the same sum upon lands leased as is provided shall be expended in case of sales or grants and within the same time, and in default of such expenditure the lease shall be forfeited and become void. The lessee may at any time during the demised term, upon the payment of all rent due and the performance of all covenants and conditions, become the purchaser of the lands, claiming to be in such case the sum paid as first year's rental shall be treated as part of the purchase-money. If default is made in payment of rent, the lease shall be forfeited and become void, but the lessee may date forfeiture by paying rent within thirty days from the date herebefore appointed for the payment thereof.

RESERVATION OF TIMBER. The patents of all crown lands sold as mining lands shall contain a reservation of all pine trees standing or being on said lands, which pine trees shall continue to be the property of the crown, and any person holding a license to cut timber or sawlogs on such lands may at any time during continuance of such lease enter upon such lands and cut and remove such trees. The patentees and those claiming under them may cut and use such trees as are necessary for building, fencing and fuel on the land so patented, or any other purpose essential to the working of the mines thereon, and may also cut and dispose of all trees in clearing the land for cultivation. All such timber cut for purpose of timber or sawlogs shall be subject to duties.

SURFACE RIGHTS AND MINING RIGHTS. Where the mines, minerals and mining-rights are reserved to the crown, the owner of any surface-rights (if a patent has not been granted) or applicant therefor may make application for and obtain a license or grant of such application for a mining lease or grant thereof, upon payment to the department of the purchase-money or rent. Valuers appointed by the director of mines shall settle disputes arising between the owner of the surface-rights and the owner of the mine.

BUREAU OF MINES. In connection with the department of crown lands a bureau of mines is to be established (and in promoting the mining affairs of the province) a director of the bureau of mines is to be appointed, who shall have all the power, rights and authority throughout the province which an inspector or local agent has. Inspectors shall have power to settle disputes between licensees, and their decisions shall be final. No officer appointed under this act shall have any interest in mining claims. The lieutenant-governor has power to appoint local agents to receive applications for the sale of mining lands in their respective agencies.

MINE'S LICENSE. A director of the bureau of mines may, on payment of \$5 and one year's rent at the rate of \$5 per acre, grant to the party applying for the same a license, to be called a mine's license. Every mine's license shall be in force for one year from the date thereof, and shall not be transferred. The license may be renewed on payment of a fee of \$5 and the annual rental. Licensee has power personally, and not through another, to mine according to the license.

STAKING OUT AND HOLDING OF CLAIMS. The licensee shall have the right to stake out claims in the division mentioned in his license a mining claim on any crown lands not already licensed, by planting a wooden or iron picket at each of the four corners thereof. Mining claims shall be laid out uniformly and in quadrilateral and rectangular shapes, and the measurement of all such claims shall be horizontal. Inspectors shall keep books for recording mining claims, which books may be inspected by any person on payment of a fee of 25 cents, and every licensee who has staked out a mining claim, and the inspector therefor, shall give notice thereof in writing to the inspector. A mining claim shall be deemed to be forfeited and abandoned in case the annual rent thereof has not been prepaid, or if the mining claim remains unworked for the space of three months after the same has been first staked out, or remains unworked for the space of fifteen days after the expiration of the said three months. No person shall at the same time occupy more than one mining claim on crown lands, except where mining claims have been rented temporarily unworked in case the inspector shall, on application of the licensee and on the receipt of \$1, make an entry in the book to be kept by him of the cause or reason for the claim not being worked. The discoverer of a new vein shall be entitled to two mining claims, if the discovery is made at on a known vein or lode at least three miles from the nearest known mine or discovery on the same vein or lode.

A party will fifteen feet thick shall be left between claims and shall be kept clear. Any person who removes any stake or picket to construct a new mine or access to the water, in no wise more difficult as an approach than the one destroyed by the removal of the party wall. No person shall remove or disturb any stake, picket or other mark placed as aforesaid, and any violation of this act shall be deemed to be a forfeiture of the mine and the costs. Returns are to be made by owners of mines and their agents, on or before the 1st of December in every year, to the bureau of mines, showing correct returns of number of persons ordinarily employed in or about such mine, the quantity in value of the mineral produced, and the amount of the undersold mineral which has been sold, treated or used during the year, and the value or estimated value thereof.

The act contains provisions for the prevention of accidents, in regard to the following:—The abandonment of mines, and for the fencing of abandoned mines. It also defines the duties and powers of inspectors; penalties for obstructing inspectors, also general rules in regard to ventilation, gunpowder and blasting, manholes, and cages and shafts, safety from water, signaling, overhead cover, chains, shipping of rope on drum brake, inclination of ladders; gauges to boilers and safety valves, etc., etc.

QUARRIES.

There are no special laws as to quarrying in Ontario.

GRANTING OF CHARTER.—The lieutenant-governor may, by letters patent, grant a charter to any number of persons not less than three, who shall constitute a corporation, which shall be the shareholders in the company thereby created a body politic and corporate for any of the purposes within the jurisdiction of the legislature, except for the construction and working of railways and the business of insurance. Any person who desires to obtain a charter of incorporation for such purposes shall previously give notice of their intention to make such application by making publication during four consecutive weeks in the *Quebec Official Gazette*, which notice shall contain:

1. The corporate name.
2. The object of the corporation.
3. The place of business.
4. The proposed amount of its capital stock.
5. The number of shares, and the amount of each share.
6. The name in full, address, and ending of each of the applicants, with special mention of the names of not less than three nor more than nine of their number, who are to be the first directors of the company.

Within a month thereafter the applicants may petition the lieutenant-governor for the issue of letters patent, which petition must recite the facts set forth in the notice, the amount of stock taken by each applicant, the amount paid in on the shares of stock, and the manner in which the same has been paid. The aggregate of the stock taken must be at least one-half of the total amount of the stock of the company. The aggregate so paid in must be at least ten per cent. thereof, or five per cent. of the total capital, unless the total exceeds \$50,000, in which case the aggregate paid in upon such excess may be less than five per cent. thereof. The letters patent shall recite all the material averments of the petition. The lieutenant-governor may in petition change the name of the company.

GRANTING OF CHARTER. Every company so incorporated may acquire, hold, alienate or convey any real estate requisite for the carrying on of its undertaking, and shall forthwith become and be invested with all the rights, real and personal, heretofore held by or for it under any trust, and all the immunities requisite to the carrying on of its undertaking, and by simple resolution it may issue bonds or debentures for the settlement of accounts, and it may, by a resolution of two-thirds of the actual shareholders, issue bonds or debentures to the amount of one-third of the total amount of the movable property. Such bonds or debentures shall be registered in the office of the registration division, and shall then constitute a privileged effect in favor of the holders thereof against the company, and given right of preference over all other debts and claims in the liquidation of the company. The directors may increase or decrease the capital stock of the company after the whole stock has been allotted and paid in, by a by-law to that effect.

THIRTEEN RULES. The directors shall be elected by the shareholders at a general meeting of the company assembled, for a term not to exceed two years, as the by-laws may prescribe. The directors have full power to conduct the affairs of the company, and may make contracts which the company may be bound to such issue, and they may also make by-laws, not contrary to law, to regulate: 1. The allotment of stock; 2. The making of calls thereon; 3. The payment of calls; 4. The issue and registration of certificates of stock; 5. The forfeiture of stock for non-payment; 6. The distribution of dividends; 7. The mode of transfer of stock; 8. The declaration or payment of dividends; 9. The number of directors and their terms of office; 10. The amount of their stock qualification; 11. The appointment, functions, duties and removal of all agents of the company; 12. The security to be given by them to the company; 13. Their remuneration; 14. The place where the annual meetings of the company shall be held and the business conducted; 15. The calling of meetings of the board, &c. The quorum; 16. The mode of conducting the business of the company, and the mode and conduct in all other particulars of the affairs of the company. Such by-laws will be in force for one year, and, unless confirmed at the next annual meeting, shall cease to have force.

The directors shall be jointly and severally liable to laborers of the company for all debts not exceeding one year's wages due for services performed while they are such directors, respectively; but no director shall be liable therefor unless the contractor has been paid by the director within the debt became due.

SUBSCRIBERS. Any number of shareholders who represent one-tenth of the capital stock may call a special meeting by giving written notice thereof. No stock shall be issued to represent less than one share, and the purchase of stock shall be known as "watering of stock" is prohibited. The capitalization of surplus earnings, and the issue of stock to represent such capitalization of surplus, are also prohibited. Every form and manner of fictitious capitalization of surplus is prohibited. The practice of making and expending in the interest of such company is prohibited. The stock of the company is deemed personal estate, and is transferable. The directors may call in from the shareholders all sums of money by them issued, and may pay the same back to the shareholders. No less than ten per cent. upon the allotted stock shall be called in and made payable within one year from the incorporation, and for every year thereafter at least a further five per cent. shall be made payable until the whole stock is paid in. If the directors refuse to call in or pay any call within the time prescribed their stock may be forfeited to the company. No shareholders shall be held responsible to creditors beyond the amount of their respective shares in the capital stock thereof.

DIVIDENDS. No company shall declare a dividend that is not earned, or which infringes or lessens the capital of the company. Should any dividend be so declared, the directors consenting to

CHIEF MAILS. Every person who desires to make use of any mill, other than those worked by hand, within or near any mining division, for the crushing or reduction of quartz, or the obtaining of gold or silver therefrom, by crushing, stamping, amalgamating or otherwise, is required to obtain a special license therefor from the inspector upon payment of a fee of \$5. Thereafter the mill owner is required to keep a register, in which he is bound to enter a clear and distinct statement of the entire business

of his mill, and to furnish monthly to the inspector of the mining division a statement, under oath, for each day of the month then last past, together with such other information as the inspector or the lieutenant-governor in council may require.

REGULATIONS. The lieutenant-governor in council may from time to time make any regulation which he may deem necessary or expedient for the conduct and best interests of mining, and all such regulations, after being published in the *Quebec Official Gazette*, have force of law. He may, by proclamation, declare that the section of the revised statutes respecting riots near public works shall have force of law from and after the date of such proclamation in the divisions mentioned in the proclamation, and he may in the same manner declare the said section to be no longer in force.

PENALTIES. Whoever mines without an exploration permit is liable to a fine not exceeding \$10 and costs for every day of such contravention, or, in default of payment, to imprisonment for a period not exceeding one month. Whoever obstructs or removes a party wall or passage upon lands worked as mines is liable to a fine not exceeding \$5 and costs, or, in default of payment, to imprisonment for a period not exceeding one month. Whoever causes damage or injury to the occupant of another concession by throwing earth thereon or flooding with water is liable to a fine not exceeding \$5 and costs, or, in default of payment, to imprisonment for a period not exceeding one month. Whoever does not comply with the decision of the inspector

with respect to a water-course is liable to a fine not exceeding \$50 and costs, or, in default of payment, to imprisonment for a period not exceeding one month. Any person found removing or disturbing any stake or peglet is liable to a fine not exceeding \$10 and costs, or, in default of payment, to imprisonment for a period not exceeding one month. Every person who discontinues working a mine without fencing the excavation to a height of at least four feet is liable to a fine not exceeding \$50 and costs, or, in default of payment, to imprisonment for a period not exceeding one month. Every inspector of mines who, while in office, takes, without consent of the lieutenant-governor, an interest in the mines in his division, is liable to a fine not exceeding \$100 and costs, or, in default of payment, to imprisonment for a period not exceeding one year. Every holder of a license engaged in mining who interferes with an officer in entering for the performance of his duties in the mine is liable to a fine not exceeding \$5 and costs, or, in default of payment, to imprisonment for a period not exceeding one month. The fines imposed by this law are recoverable by the commissioner of crown lands in the district where the offenses have been committed, in the same manner as is an action for debt. No appeal lies from any conviction by or appointment of the inspector under the provisions of this law. All suits for contraventions of this law are brought by a complaint. All dues, fees and fines collected under this law, as well as the purchase price of mining concessions, unless otherwise provided, form part of the consolidated revenue funds of this province.

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TITLE 1. ON MINES AND MINING. PROPERTY.

Art. 2. subject to this law are those mineral substances which cannot be exploited under previous concession and those for whose extraction works are required which may endanger the lives of the operatives, the security of the works and the stability of the soil.

Art. 4. The owner of the soil may exploit freely, without indemnity for a special concession in any case, the following mineral substances:—The combustible minerals, oils and mineral waters, the goods of the ground which serve either as direct or indirect

Art. 7. Legally acquired mining property and that which in the future may be acquired under the provisions of this law, shall be irrevocable and perpetual by virtue of the payment of the federal property tax, in accordance with the provisions of the law which establishes said tax.

Art. 6. The original title of mining property which is not acquired will be that which the minister of public works, según el artículo de tomento, decrees in conformity with the prescriptions of the law.

At 8. The exploitation of the products of mineral resources is completely limited by the respective boundaries, and can only be permitted outside of said limits, in accordance with the provisions of the legislation, when the land is free from any claim and has been declared available for the purposes of the respective mineral resources.

Art. 9. The water which is brought to the surface by virtue of the subterranean works of mines belongs to the owners of said mines, and the present plans of the common law should be maintained in order to protect the rights of producers of the land.

At the same time, the works required for the development and promotion of mines and plantations are of public utility; consequently, in default of agreement, forcible appropriation for that purpose of the lands of the State may be made. A legal procedure may be made

Art. 11.—The owners of mining concessions shall consult freely with the owners of the surface land for the occupation of the surface space they need, either for the exploitation of places or super-space for buildings, or for the establishment of buildings and other works of benefit, or for the establishment of a station, railway, or

Suppose that $\mathbf{h} = \mathbf{h}(\mathbf{w})$.

All the Maritime provinces and common properties which are endowments shall enjoy of suffrage, as the case may be, the benefit of use as regards the passage, deposit, discharge and ventilation of air as regards governing themselves in the imposition of

that of drainage, in which case, under penalty of nullity, all particulars referring to passage or transit indicated in the foregoing Clause IX shall be stipulated in the compact. XI. Mines which may be newly opened in places where they can be benefited by a sewer drainage tunnel already existing shall be subject to the provisions of Clauses III, VII, VIII, IX and X. XII. The legal right of use for ventilation consists in the obligation of every owner of appurtenances to permit that his interior workings may be communicated with the exterior by means of the most proper ties, to whom the communication produces, as a necessary result, the ventilation which cannot be accomplished in any other manner without great expense. XIII. Unless by special compact to the contrary, made in a public deed, the ventilation of the property giving and receiving the benefit there shall always be grates located so as to impede passage or transit at the borders of the respective properties. XIV. When a communication, different from that foreseen in Clause XII, effectively ventilates one or more works, that service of ventilation shall give no right to the owner who made the communication to exact indemnity from the proprietors of the other ventilated works, nor shall said other proprietors, in their turn, acquire legal right of use which burdens the mining property that furnishes the ventilation. XV. If during the construction of the open work, according to the provisions of Clause XII, paying ore is found, the prescriptions of Clauses V, VI and VIII shall be observed, insofar as they suit the case. XVI. In the case of the discovery of a paying vein, the Clause IV shall be observed. XVII. All the cost which the work of making an opening to secure ventilation occasions and the cost of the after preservation of such works shall be for the exclusive account of the party who shall be applying for the right of use for ventilation. XVIII. For the establishment in the future of a legal right of use to the benefit of one mining property and to the burden of another there shall be required, either the acquiescence of the owner of the burdened property, expressed in public writing or in a declaration signed and ratified before the judicial authority or before the ministry of public works, or an administrative resolution agreed to by the interested parties; or a judicial sentence. XIX. The owner of appurtenances to whose benefit or to the benefit of another the right of use, who does not obtain the consent of the party whose property is to be burdened by the same, may apply to the ministry of public works, which shall decide within the period and with the formalities established by the regulation which in this respect always exists, giving preference to the dissenting party. If either the latter or the applicant should not agree to the administrative decision their right remains without duration to apply to the respective local tribunals within the time fixed by the regulation. XX. If the concession is not granted or is granted subject to conditions, the ministry of public works. XXI. If the administrative resolution should be favorable to the applicant and adverse to the defendant, it can only be executed immediately by the applicant first giving security satisfactory to the ministry of public works, in indemnity for damages and injuries in case the defendant should obtain execution in the tribunal in his own favor. XXII. The regulations of the three preceding clauses are applicable in all cases in which that laid down in the other clauses, expressly or could give rise to judicial contention.

TITLE II. OF EXPLORATIONS, APPURTENANCES AND MINING CONCESSIONS.

Art. 13. Any inhabitant of the republic can freely make, upon government lands, explorations leading to the discovery of mineral deposits, but if, instead of borings, excavations should be made, these may not exceed ten meters in extent, either in length or in depth. No license will be necessary for said explorations, but previous notice should be given to the respective authority as the regulation provides. No mining explorations can be made upon lands which are private property without the permission of the owner or his representative, but in case that permission cannot be obtained, the corresponding administrative authority may be petitioned, who will give it in the manner which the regulation provides, requiring a bond for damages and injuries that may be caused, which the explorer is obliged to provide to the satisfaction of the authorities after consultation with the owner of the land or his representative. Only by permission of the owner can explorations be made inside of private buildings and their dependencies. Mining explorations shall not be permitted within the boundaries of villages or towns, nor in the works, buildings or fortifications of the public nor in their vicinity. The law will fix in all these cases the minimum distances within which said works may be investigated, and the period within which they shall be extended, counting from the date of the notice of the permission or of the administrative resolution of which this article speaks, the explorer shall have the sole right of obtaining mining appurtenances.

Art. 14. The unit of concession or the appurtenance (perpetencia) in the future shall be a solid of unlimited depth, limited above ground by that part of the earth's surface bounded by a horizontal rectangle of one hundred meters on each side and bounded underground by the four corresponding vertical planes. The mining appurtenance (perpetencia) is indivisible in all contracts, which may be made concerning mining concessions or which affect the ownership.

Art. 15. Since the disposition in the final clause of Article 14 of this law, the concessions shall belong and shall always be given to the first applicant and shall embrace, in all cases in which there is sufficient land free from concessions, the number of appurtenances which the interested party may wish to obtain, and which should always be clearly specified, and, in accordance with the provisions of the regulations, the situation which the appurtenances constituting his concession are to occupy in the land. If between the appurtenances granted and others already granted, there remains a space of less size than that of the unit of concession,

this space also shall correspond and be granted in ownership to the first applicant.

TITLE III. OF MODES OF ACQUIRING MINING CONCESSIONS.

Art. 16. The ministry of state and of the dispatch of public works shall name in the states and territories and federal district the special agents acting for each, before whom shall be presented the petitions for mining concessions. These agents shall be authorized to charge fees according to the tariff which the said ministry fixes.

Art. 17. The agents of the ministry of public works shall receive the applications for mining concessions, entering immediately in a register the day and hour of the presentation. They shall then refer all cases to the judicial authority for the application and to the measurement of the appurtenances by the expert or practical man whom they appoint; and, providing there be no opposition, they shall transmit a copy of the proceedings and of the plan of the property to the ministry of public works for the approval and substance of the title. The regulations will fix the periods within which these proceedings shall be fulfilled and will detail the mode of procedure of the agent.

Art. 18. Having obtained the approval of the proceedings, and the refusal of property issued in favor of the applicant, he shall enter into possession of the mining appurtenances without necessity of further formality.

Art. 19. The agents of the ministry of public works cannot suspend for any cause the course of the proceedings, except in case of opposition; and as soon as the term fixed by the regulations terminates they shall be obliged to transmit immediately a copy of the proceedings in the state in which it may be found to the ministry of public works, who, after the due examination, may declare the tardy applicant rejected, if the fault be his, or exact responsibility of the agent if, because of him, the proceedings have been delayed. The tardy applicant cannot again apply for the same concession.

Art. 20. When opposition is presented by the owner of the soil to the corresponding measurements, alleging that the mineral deposit does not exist, then if there should be found any indication of the deposit in the surface of the earth or any outcrop or work of exploration in the said deposit, the agent of public works shall openly reject the opposition. In case that no indications of the deposit exist in the surface of the earth, nor any outcrop or other work of exploration, a proceeding analogous to that of Article 11 of this law shall be followed. The respective judge shall decide if the concession shall be given or not, and his decision is subject to appeal in either case. The writ of execution shall be issued by the judge if the concession is granted.

Art. 21. The agents of the ministry of public works shall suspend proceedings in case of opposition being presented, and send the matter to the respective local judge of the first instance for the rendition of the proper judgment. The judicial decision will give a report of his decision to the ministry of public works.

TITLE IV. GENERAL DISPOSITIONS.

Art. 22. The development of mineral substances, whether belonging to those acquired by concession according to this law or to those belonging to the owner of the soil, shall be subject to all the measures which the regulations of this law shall dictate respecting the government and security of said developments, but complying with these rules the owners shall enjoy, on the other hand, complete liberty of industrial action, in order to work in the manner which best suits them, their laborers, employing in them the number of operatives which they wish and at the point which appears to them most opportune, and following, indeed, those systems which they prefer, of use, extraction, drainage and ventilation, according as the judge it most conducive to their own interests. Nevertheless, the owners remain responsible for accidents which occur in the mines because of being badly worked and obliged to indemnify those damages and injuries which they may cause to the proprietors of the surface of the soil by any other circumstance which may impair adjacent interests.

Art. 23. When it is necessary, in order to hasten the works of the mines of a locality, to push to completion drainage tunnels, the proprietors of the surface works shall be subject to contract between the interested parties.

Art. 24. Partnerships or companies which are formed for the development of mines shall be governed by the dispositions of the commercial code, except in that relative to associations which are not formed in mining matters.

Art. 25. The contracts for furnishing sustenance to the miner entered into today *ad hoc* shall in the future have the character either of partnership, in which case the provisions of the commercial code shall be observed, or of mortgage. The mortgage in mining matters may be made freely according to the provisions of the civil code of the federal district, but holding in account the indivisibility of the appurtenance established in Article 14 of this law, and with respect to the mortgage of the provision in the commercial code, for which purpose a special book of mining operations shall be opened. The mortgagee shall always have the right to pay the tax of which Article 26 of this law treats, and shall acquire by said payment a pledge in favor of the owner of the mine, and not a precedence on his mortgage.

Art. 26. The mortgage can be divided into mortgage notes, to a specified person or to bearer, either in the same title constituting the debt or by later document. In the former case, the holder of the mortgage shall have the entire representation of the holders of obligations. These provisions, as well as those relative to the amount of the debt, to the conditions of same and to the guarantee, shall be plainly printed on each one of the mortgage notes. The mortgage notes can only bring the holder's actions against the debtor or the mortgaged property by means of a

Art. 13. The agent of public works, during a period of three months, not to be extended, counting from the date of the notification referred to in Article 12, the resolution of the permission provided by Article 11 or of the administrative decision prescribed in Article 12, shall not admit upon the place of exploration, nor within the limits of the same, applications for concessions other than those which the resolution or the decision permits.

Art. 14. The explorers shall not make exploration works near to the limits of towns, except at the distance of fifty meters from the exterior lines of their buildings, private and public, and of their dependencies. They shall not be allowed to erect any building or to any other public work or construction whatsoever, and they be reduced to thirty meters from the exterior lines of the common roads, railroads and canals. With respect to fortified points, the minimum distance at which mining explorations can be made shall be one kilometre, counting also from the exterior lines of the works.

CHAPTER III. OF THE CONCESSIONS.

Art. 15. The applications for concession of mining appurtenances or of extensions must be presented in duplicate to the respective agent of public works. They shall express with all clearness the number of appurtenances which are solicited, the situation in which they are to have on the land, the location of the land in the municipality to which it belongs, with the most prominent signs for its identification and the designation of the mineral substance which it is proposed to exploit. If in the judgment of the agent there should not be sufficient elucidation, he shall endeavor to obtain it, interrogating the applicant and including his explanations in the application in his duplicate and in the record-book of the agency, in the presence of the interested party; except that the inability of the latter to give said explanations or his refusal to do so shall not be considered sufficient reason for not making the registry, nor for suspending the other proceedings.

Art. 16. The agent cannot accept any other application for the same tract until the ministry of public works delivers the final decision in each proceeding for concession of mining appurtenances or extensions.

Art. 17. After an application for a mining concession is presented to the agent of public works he shall proceed immediately to register in the book of the applicant, registering the day and hour of its presentation and also the proper number in order of the proceeding, both in the margin of the said application and in his duplicate, which he shall return in due course, and also in the special book of record of applications for concession, to which he should have access and authorized by the ministry of public works. The applications should be registered in the exact order of dates and hours in which they shall have been presented, without leaving blank spaces in the book between the divers entries.

Art. 18. In the case of simultaneous presentation of two or more applications for concession of mining appurtenances or of extensions upon the same site, it shall be decided by chance, in the presence of the interested parties, which of the petitions must be admitted and registered.

Art. 19. Within the three days which follow the presentation and registry of an application for a mining concession, the agent shall appoint a titled expert, or, should he not have one in the place, a practical surveyor, to measure the appurtenances and extensions applied for and draw a corresponding plan, indicating clearly in the same the corners of the appurtenances or extensions expressed, and also those of the contiguous appurtenances which are enumerated, and a corresponding tract having a radius of one hundred meters. The agent may appoint the expert whom the applicant indicates to him, always providing the said expert complies with the necessary conditions.

Art. 20. Within the eight days following the appointment of which the preceding article treats, the expert should communicate to the agent whether he accepts the offer or not, and in the former case what is already arranged with the applicant regarding the payment of fees. The agent will enter the due acknowledgment in the record-book of the proceeding. The agent shall not receive the expert more than eight days to another eight, and on one occasion only, at the instance of the applicant.

Art. 21. At the time of the entering of the acknowledgment of which the preceding article treats, the agent shall receive from the expert the period of sixty days, not to be prolonged, for him to present in triplicate the plan of which Article 19 speaks, accompanied by explanatory information, and shall proceed to draw up a duplicate an abstract to be filed in the record-book of the proceeding, with a clear and precise specification of the name and residence of the applicant and of the serial number of the proceeding.

Art. 22. The name, residence and acceptance of the expert appointed. III. The notice that a period of four months, not to be extended, counting from the date of the presentation of the plan, the confirmation of the proceeding in the agency. One copy of the abstract shall be posted on the bulletin-board, which shall be placed on the exterior of each of the agencies, resuming of the applicant in the order of the rank of the necessary stamps for the publication. The abstract shall remain fixed for one month upon the bulletin-board, of which due entry shall be made in the proceeding. The other copy of the abstract shall be delivered to the interested party, who shall be held responsible for the risk and within the forty days following the date of the abstract, cause the same to be published three consecutive times in the official periodical of the respective state, territory or federal district. The applicant shall pay the cost of the publication, in advance. The same may be attached to the proceeding, and the respective agencies of the periodicals in which the publications have been made.

Art. 23. The publication of the abstract, as provided in the preceding article, serves the same purpose as is mentioned in those who may believe they have a right to protest against the application for a mining concession.

Art. 24. The agent, upon entering the acknowledgment of which Article 23 treats, shall deliver to the expert a certified copy of his appointment, which shall conclude with the statement that who-soever resists in the execution of the field-work which the expert has to do shall be held accountable under the penalties established in Article 94 of the penal code of the federal district, or in the corresponding provisions of the laws of the States.

Art. 25. If, in fact, the experts, in the execution of the work of which the preceding article speaks, should encounter resistance, they shall request the aid of the local authority.

Art. 26. The agent shall be held responsible for the observations as the applicant may make to them, and these also which shall have been or may be made in opposition to the application for a concession, but they shall not express judgment upon the observations, except in the written information of which Article 21 treats, the corresponding provisions of which, within the period there fixed, of the personal responsibility of said experts, to whom shall be charged all the damages and injuries which may originate in default of presentation of that document or of the plan.

Art. 27. Only during the four months fixed in Section III of Article 21 shall be admissible any opposition which may be presented, for either of the following reasons: 1. Dissent of the owner of the soil. 2. Invasion of appurtenances or extensions contiguous. 3. The ownership or prior acquisition of the appurtenances or extensions solicited, or for a part of them.

Art. 28. The agent, after he receives a protest against any application, will give notice of the same to the applicant by publication, during three consecutive days, of the date, content, and names of the opponent and applicant, and of the serial number of the respective proceeding, in which due entry shall be made that such publication has been made.

Art. 29. Unless the applicant repair to the agency and declare the continuing the petition, the period there fixed for the filing of the opponent's protest until the receipt of the information and plan of the expert.

Art. 30. On the same day on which these documents are received the agent shall summon the interested parties to a meeting, within the fifteen days following, by means of a notice posted for three consecutive days on the bulletin-board, which shall express plainly the number of the proceeding, the names of the interested parties, and the day and hour of the meeting. If that meeting does not take place, the agent shall endeavor, before all, to reconcile the differences and avoid legal complications. Of all these particulars due entry shall be made in the proceeding.

Art. 31. If the opponent should be the owner of the soil, and in the said publication it should appear that there are indications of a mineral deposit in the surface, or any work of exploration in the said deposit, the agent shall continue the proceeding until its termination, in order that the ministry of public works may resolve the question of the title. If the owner of the said land, in conformity with Articles 7 and 11 of the law, either is understood solely with respect to the subsoil, or finally leaves subject to judicial decision the extent and the price of the surface which he wishes to occupy. The expert, at that meeting, in the respective proceedings which are in these cases, shall advise the interested parties that they have perfect liberty to appeal to the tribunals in conformity with Article 20 of the law.

Art. 32. In any other of the cases of opposition enumerated in Article 26, the agent, should not obtain the reconciliation provided for by Article 29, shall suspend all proceedings and shall deliver the proceeding to the applicant, in that act, upon his own responsibility and within the proper time, which the agency shall present it to the corresponding local judge of the first instance.

Art. 33. If any opposition be presented founded upon a cause diverse to those enumerated in Article 26, the agency shall be required to include the matter in the proceeding without suspending the continuation of the same.

Art. 34. If the opposition should be presented after the receipt of the plan and the information of the expert, but before the expiration of the four months fixed in Section III of Article 21, the agent, in conformity with the third of the cases provided for in Articles 26 to 32, this being the only case besides that of remission to the tribunals in which the agencies can delay the termination of the proceedings, for thirty-five days before the expiration, providing not obtaining the reconciliation provided for in Article 29, shall suspend all proceedings and shall deliver the proceeding to the applicant, in that act, upon his own responsibility and within the proper time, which the agency shall present it to the corresponding local judge of the first instance.

Art. 35. The four months having passed of which Article 26 speaks, and having been passed the period of the appeal, of which it would be the case, as foreseen by Articles 30 and 32, of the proceeding having devolved upon the tribunals, with execution in favor of the applicant, the agencies under their strictest responsibility and within the proper time, shall require, which shall be returned to the interested party, through the agent, in the event that the ministry, by not approving the proceeding, does not grant the title. If the applicant should prefer it, he shall sign a petition which shall be presented to the ministry of public works, the stamps referred to.

Art. 36. Any omission in the presentation of petitions, in furnishing of stamps, in publication, in payment of fees, in attending at meetings, and in general in whatever may be imputable to the applicants or to the opponents, shall signify, for the former that they have withdrawn their application for a concession, and

for the latter that they have withdrawn their opposition, and in conformity with these pretensions that they have acknowledged the application, and have signed the respective documents.

Art. 37. The proceeding having been examined in the ministry of public works and approved by that department, said department shall proceed to the issuance of the title and to its remission to the agent of public works, in order that he may deliver it to the interested party, with a copy of the plan, stamped to the ministry of public works, which department shall give to the treasury department a detailed report of the concession granted. If the proceeding should not be approved, the corresponding observations shall be given to the agent, to the end that the faults observed may be rectified within the time that the ministry may signify, provided these faults cannot be imputed to the applicant or the agent, for in that case the proceeding must be in conformity to the provisions of Article 19 of the law.

CHAPTER IV. GENERAL DISPOSITIONS.

Art. 38. The duties which the expert appointed in conformity with Article 19 has to perform shall be executed in such a manner that, by the necessary scientific proceedings, the horizontal length of the sides of the appurtenances and the angles which the same form with the true meridian may be obtained. For this purpose the expert shall determine the magnetic declination of the compass, in case this instrument is used to measure the directions of the sides. The boundary lines and corners shall be marked by fixed monuments which may be encountered for reference, and the necessary data shall be obtained to make verifications of the work. The expert shall designate upon the ground where the respective landmarks shall be constructed in accordance with that which is prescribed in Article 11.

Art. 39. The plans of the appurtenances shall be drawn correctly and with neatness, upon strong paper, for the preservation of said documents. Copies may be taken therefrom on fine cloth. The scales shall always be decimal and proportioned to the object of the plans, containing also the lengths of the sides in meters, the directions of the same with relation to the true meridian, the area of the enclosed surface, and the location which it has determined, and the area of the surface in hectares.

Art. 40. The survey and measurement of the appurtenances in the land do not imply the right to the occupation of same, and the expert may not serve to mark the boundaries of the concession, and the applicant should understand that he must treat with the owner of the land, in order to acquire by purchase, within convenient time, that part of the surface which he needs for the development of his mining operation, of the total area of the said surveyed lot, the applicant may acquire by purchase, or by superfluous deposits, or otherwise procure the same by appropriation, procuring the corresponding judgment of the tribunal, according to the prescriptions of Article 11 of the law.

Art. 41. The boundaries of the appurtenances shall be: I. They shall not be changed in position, for being destined to designate points essentially invariable, as long as the limits of the appurtenances of concessions which they mark be not modified, they shall be constructed and shall be kept in good condition, in good condition, making upon them such repairs as shall be necessary. II. They shall be located in number and position conveniently so that in every case the proceeding and the following can be seen clearly from each, and in form, color or of some other character should be distinguishable from those of the adjacent appurtenances.

Art. 42. The owners of mining concessions cannot go outside of the boundaries of the same, according to the provisions of Article 3 of the law, except when there is free land and previous application for extension before the respective agent of public works, who shall conduct the proceedings on the same terms and with the same requisites as those which are established in this regulation for mining concessions. The same proceedings shall be pursued in the furtherance of applications for rectification of appurtenances.

Art. 43. The mineral substance enumerated in Article 1 of the law cannot be exploited without previous concession, and, therefore, no labor will be permitted in mines or places of said substances, which are not worked by a legal right or registered, consequently no labor will be permitted, either open to the air or subterranean, which has for its object the future exploitation of any of the substances mentioned.

Art. 44. Every applicant for a concession, and about any of the mineral substance not specified in Article 1 of the law, and which according to Article 1 of the same are for the free exploitation of the owner of the soil, shall be required:

Art. 45. In order to have the right of use referred to in Section IV of Article 12 of the law, the application for the license shall be presented to the respective agent of public works, accompanied by as much of the horizontal projection and profile of the tunnel, both in one decimal scale, and also as much of the area and details, as are necessary to give a clear narrative and circumstances of the project work. The agent shall remit to the ministry of public works, together with the application and corresponding plans, a report upon the matter, also giving his opinion. The property shall be surveyed in view of the said documents and of the other data which he may consider proper to require, shall render his decision.

Art. 46. The owner of appurtenances which would be benefited by a legal right of use, who does not obtain the consent of the owner whose property would be benefited by the same, shall apply to the ministry of public works, in conformity with the provisions of Section XIX of Article 12 of the law, accompanying the application with all the necessary data. The ministry, in view of the report of the agent of public works, and of the opinion and hearing granted to the dissenting party, or to his representative, shall render his decision within the time which he shall designate, in accordance with the circumstances of each case.

Art. 47. If he who objects it or he who ought to grant the right to which is referred in Section XIX of Article 12 of the law does not apply with the necessary data to the ministry of public works, he may appeal to the respective judge, provided he does so within a time which does not exceed two months from the date of the administrative decision.

Art. 48. The different parts of the republic which are not included within the jurisdiction assigned to an agent of public works in the branch of mining, the applications for mining concessions, as also the notices and instruments granting permission of exploration, shall be presented to the postmaster, who shall note upon the application and the notice, the date and hour of presentation of exploration, the day and hour of the presentation, and shall give immediate notice to the ministry of public works by mail, and by telegraph, if there be one.

Art. 49. The postmaster can only receive and note the applications for concession, and the notices and instruments granting permission of exploration, to which the preceding article refers, in case that the place of his residence is outside of the jurisdiction of any agent of the ministry of public works in the branch of mining.

Art. 50. The ministry of public works shall publish every six months in the *Diario Oficial*, the federal official paper, the notice of the titles of mining property issued during the said semester.

Art. 51. The special book, of which Article 25 of the law treats, shall be kept by the persons prescribed in Article 18 of the commercial code, being governed in its conduct by what that code ordains in that chapter II, Title 2, book 1.

Art. 52. It is the right of individuals to register titles of mining concession, or of existent ownership, in the commercial record, as permitted by Article 26 of the mercantile code, wherever the proper registry book is not kept.

Art. 53. The registration is obligatory upon mining corporations and upon co-owners of mines, in conformity with Article 25 of the law and Article 7 of the transitory dispositions given in Article X.

Art. 54. Mining corporations are obliged to register in the capital of the province of national district, both the location of the mining appurtenances and the office of offices which the company has in the republic.

Art. 55. If, through the extension of appurtenances, or through any other cause, there should be any doubt about the place in which the registry should be made in conformity with the preceding article, the minister of public works will determine the same, communicating his decision to the minister of the treasury.

CHAPTER V. TRANSITORY DISPOSITIONS.

Applying only to the taking effect of the new law of 1906.

Art. 1. The agents shall receive, as per strict inventory, the proceedings which exist in the offices of the mining departments, and the agents shall be held responsible for the same, and all unpublished proceedings they shall give due course in conformity with Article 1, Title X, of the law.

Art. 2. Every document which is found in the course of publication shall be posted in an abstract in the book, after which the agencies shall comply with the provisions of Articles 11 and 20, within the time prescribed by Article 21, repeating the publication in the official periodical to which Article 1 refers.

Art. 3. In those proceedings of denouncement in which the publications have already been made, but in which the expert has not yet been named to measure and survey the appurtenances, the agencies shall proceed, without making new registry of the denouncement as in cases of new applications for concession.

Art. 4. In those cases of denouncement in which the expert has already been named, but the plan and information have not yet been presented by him, the agencies, without making a new registry of denouncement, and possessing, upon the expert named, shall proceed in the manner as in new applications for concession.

Art. 5. In those cases of denouncement in which the plan and information have already been presented, the agencies shall proceed to issue in duplicate an abstract containing the following: I. A copy of the information, and the plan, and the location of the mine and residence of the denouncer, and the register number of the case. II. The information of the expert. III. Noted that a period of two months, not to be extended, count from the date of the abstract, within which the denouncer of the proceeding, in the agency. The agents shall give to these two copies of the abstract the destination laid down in Article 21.

Art. 6. In those cases of denouncement in which the deposition has already been made, and in which the expert and the agent of the expert have not yet been received, the provisions of Article 12 shall be observed, and the provisions of Articles 28 to 27 in the cases to which they apply.

Art. 7. In those cases of denouncement in which the deposition and the expert's plan and information already exist, as also in those cases in which the deposition is presented within the two months provided for by Article 1 of these transitory dispositions, there shall also be observed the dispositions provided in the Articles 28 to 27 of the law, in case the denouncer of the thirty-five days of extension established in Article 1.

Art. 8. The dispositions in Articles 28 to 27 shall also be observed in those cases of denouncement in which a new case is in the period of two months, from the date of the deposition of the mining code of the 22d of November, 1891. The agencies of administrative authorities do not have the power of receiving and passing upon reports in the same manner as specified in the laws of 1891 and 1906, and the provisions of the law of 1906, in these transitory dispositions, without there having been any opposition, or any other events between by Article 14 having occurred, the agencies shall proceed as that article ordains.

Art. 9. In the case of this article, within the thirty days laid down in Article 1 of the law, the denouncer shall be obliged to announce to the public that he is, as stated, in compliance with the duties of his office.

TARIFF FOR THE PAYMENT OF FEES TO THE AGENTS OF THE MINISTRY OF PUBLIC WORKS IN THE BRANCH OF MINING.

I. For the annotations in the notice or in the permission of exploration, to which Articles 10 and 11 of the ordinance for the administrative proceedings in the branch of mining refers, and for the corresponding receipt, \$1.

II. For the proceedings and the issuance of the permission of exploration, to which Article 12 of the said ordinance refers, \$2.

III. For the registry of each application for a mining concession, or for the extension or modification of mining appearances, and for making the corresponding record, \$1.

IV. For the notices, memorials and abstracts of proceedings, at the rate of 20 cents for each ten lines or fraction thereof; and in addition 10 cents for each of the title pages, which cover the proceedings and other documents which must be exhibited.

V. For the transcription, collation and authorization of the evidence and certificates, and for other copies, at the rate of \$1 for each hundred lines or fraction thereof.

VI. For the search of proceedings or whatsoever other documents from the record, \$1. When the interested party does not furnish sufficient data, and he has to register corresponding documents for more than one year, \$1 for each year which is required.

VII. For each kilometer of a journey, and for each one of the return, which is traveled in the transaction of any business, 25 cents.

VIII. For an ocular view or exterior examination, rendering the corresponding information, \$5.

IX. For the inspections, visits or examinations in works below the surface, \$5 for each one hundred meters of depth or fraction thereof at which are encountered said works, and \$5 for the corresponding information, \$5.

X. For attendance at meetings which do not exceed one hour, \$5; and for each hour additional or fraction thereof, \$1.

Liberty and Constitution.
Mexico, June 25th, 1892.

MINING TAX LAW OF JUNE 6, 1892.

Article 1. In accordance with the provisions of the articles relating to the new mining law, there shall be established a federal property tax, which shall consist of two parts, one part, which has to be paid once only, in stamps to be affixed to all titles of mining property, and the other part, which has to be paid annually, for each one of the appearances of which a concession is composed.

As regards the tax, the appearance or unit of concession shall be the one established in Article 1 of the new mining law. Consequently all old and new appearances, existing in the republic, whatever be their extent, shall be valued according to this unit.

For the fractions of appearances that amount to one-half or more, the tax shall be paid as if they were whole appearances; and nothing shall be paid for the fraction that is less than one-half.

Art. 2. Every owner or actual proprietor of mines, whatever the title they may have, shall be obliged to present his documents to the office of the treasury which the regulations of this law may determine, within the time, not to be extended, counting from the taking effect of this law to the 31st of October of the present year, so that the new stamps of ownership of the mines may be affixed to the title and account taken, or the payment of the annual contribution, of the number of appearances which form the property, a corresponding register being opened for this purpose.

The titles which, in future, the ministry of public works will extend in accordance with the new mining law must bear the stamps corresponding to the same. These stamps shall be furnished by the party receiving the concession and shall be in proportion to the appearances which the concession contains.

Art. 3. The property of the mines shall be the value of \$10 and have to be affixed to the titles of the property, one for each appearance of ten thousand square meters. The rules established in Article 1 to be followed as regards the fractions.

These stamps have to be presented to the office of the treasury authorized to receive the titles which were extended up to the 30th of June of the present year, the ministry of public works the appearing those belonging to the titles which are extended in accordance with the new mining law.

Art. 4. From the 1st of July of the present year, all owners or proprietors of mines shall be obliged to pay the sum of \$10 annually for each one of the appearances of which their concessions are composed.

The amount of the tax shall be the same, whatever is the nature of the substance which is being worked, in the understanding that the mine has been acquired through denouncement or by special concession before the date on which the new mining law took effect, and that in the case of mines acquired by concession and title in accordance with the new law.

Only those mines shall be exempt from payment of the annual contribution on appearances and of the stamps on the titles of the property, which have been previously freed from the same by the executive government in virtue of the authority given by the legislature and approved by the same. This exemption shall only last for the time stipulated in the contract, and no extension of time will be granted.

Art. 5. The annual property tax on mines shall be paid in three advance payments during each fiscal year. This payment to be made during the first month of each one-third part of a year, in the office of the treasury which the regulations of this law shall determine, and to which the taxpayers are obliged to go in order

to make their payments without further need of notification or any other requisite on which they might found delay or excuse.

Art. 6. Failure of presentation of the title which secures the possession of the mine within the time fixed in Article 2 shall be punished with a fine equal to the amount of the stamps which the title has to bear. If the same be presented within the two months following the expiration of the time allowed, for every two months more that the presentation is delayed, the holder shall incur a fine equal to the amount of the stamps.

The concealment of the number of appearances shall be punished with a fine equal to double the amount of the stamps which the title ought to have borne for the concealed appearances, to which shall be added double the amount of the annual tax for each appearance. If the same be presented within the two months following the expiration of the time allowed, for every two months more that the presentation is delayed, the holder shall incur a fine equal to double the amount of the stamps which the title ought to have borne for the concealed appearances, to which shall be added double the amount of the annual tax for each appearance. If the same be presented within the two months following the expiration of the time allowed, for every two months more that the presentation is delayed, the holder shall incur a fine equal to double the amount of the stamps which the title ought to have borne for the concealed appearances, to which shall be added double the amount of the annual tax for each appearance.

Failure to pay the annual property tax within the first month of each one-third part of the year shall cause the owner to incur a fine amounting to fifty per cent of the amount of the tax, in case he pay during the second month. If the payment be made in the third month, the fine shall be equal to the amount of the tax. When once this last-named space of time has expired without the tax and accumulated fines being paid, the mining property shall be lost to the owner without recourse whatsoever. The department of the treasury shall make the corresponding declaration and shall publish the same in the *Diario Oficial*, so that any other party may petition for the property.

Art. 7. When the owner of the mine sells the same, he shall give the respective notice for annotation in the register, and the bill of sale which is given shall bear the stamps which according to the law and accumulated fines being paid, the mining property shall be lost to the owner without recourse whatsoever.

Art. 8. In case it no longer suits any person or company to continue working the mine or mines which he or it may possess, the respective office of the treasury shall be advised in writing, so that the tax may be settled up to the date of the notification and the corresponding annotation be made in the register.

REGULATIONS OF THE MINING TAX LAW OF JUNE 6, 1892.

TAX ON MINING PROPERTIES.

Article 1. The tax established by this law is applicable to the mining properties now existing or which may hereafter be authorized by the ministry of public works in conformity with Article 3 of the law of the 4th of the current month. The mining properties, of which the titles are issued in accordance with the mining code of November 22, 1884, are, in so far as refers to taxes, subject to the present law, being liable only to that dated June 6, 1887, and such others as may be now in force.

Art. 2. The tax upon titles shall be paid by affixing to the last deed of transfer that may be made by the interested party the corresponding amount of document and book stamps in conformity with Article 3 of the law, the same to be cancelled as there is prescribed.

Art. 3. All owners and present holders of mines comprised in those referred to in Article 1 are obliged to present to the proper agent of the treasury in the states or the territories within a term which shall not be extended, expiring on the 31st of October of the present year, and under penalty of fines which may be applicable. I. The original titles of possession, pursuant to Article 4, Section VI, of the ordinances of May 22, 1783, and Article 2 of the mining code of November 22, 1884. II. The last deed transferring ownership, in the case of the present owner of possession being the assignee of the original denouncement. III. A declaration in duplicate under oath, which shall express in detail the name and place of residence of the owner or holder, and, in such cases, that of the company and its manager or representative; the location and extent of the appearances and extensions in conformity with the latest measurements, expressing whether these are contiguous or separated, the amount of all appearances and extensions taken possession of, the conversion of this amount into hectares, according to the method of conversion which is fixed in Article 4 of the law of June 14th of the current year, and the reduction the petitioner may desire, if any, in conformity with Transitory Article 4 of the law cited and 8 of that of June 6, 1892.

The presentation of the documents referred to in the foregoing article has for its sole object the identification of the mine and the justification of the exactness of the conversion of the appearances into hectares.

Art. 5. The offices mentioned in Article 3 will return immediately to the interested party the duplicate of the declaration, after having noted thereon the date and hour at which the same was presented, affixing to the last title the proper stamps.

Art. 6. Within three days subsequent to that on which the declaration is received, the interested party shall submit the documents or proceedings shall be forwarded to the treasury department, together with a report in which such office shall present and substantiate its opinion as regards the exactness of the declaration made by the interested parties.

Art. 7. Upon receipt of the documents or proceedings by the treasury department in the manner cited in the last preceding article, the latter will determine, after having procured such information thereon as it may deem essential, whether the declaration shall be accepted or rejected.

EXTRACT FROM ARTICLE 3 OF THE MINING CODE OF NOV. 22, 1884.
Art. 3. The mines and quarries for their extraction, including under the first designation all industrial establishments of mining in which by any kind of process are extracted some of the substances contained in the matter obtained from the mines or places referred to in the two foregoing sections of this article. The said substances are the same as specified in Article 3 of the new law. TRANSAXTOR I.
Sec. 4. The waters extracted from the mines or places referred to in the two foregoing sections of this article, and which may be used for drinking by workmen and animals for motive power or for any other use in mines or metallurgical works.

In Mexico a year is divided into three parts of four months each, the first of quarterly years in the United States.

Art. 3. Quicksilver of whatever origin shall be free from all charges, of whatever kind they may be.

Art. 4. Such mines as are not covered in Article 1 and the products thereof shall only pay one single tax, in addition to the federal tax on conage, which shall be computed upon the value of the ore or of the substances that may be exploited, without deduction of the expenses, and which shall never exceed two per cent. of said value.

Art. 5. The tax spoken of in the preceding article shall belong to the state in which the mine may be situated, or to the federation, when the mine happens to be in the federal district or in the territories. For this reason the amount thereof, within the limits that are here designated, shall be fixed annually by the respective legislatures of the states, or by the congress of the union in its case, with regard to the necessities of the treasury and to the protection that should be accorded to mining.

Art. 6. Metallurgical works or shops of any kind, when they are in operation, shall pay to the state in which they may be situated or to the federation, if they are situated in the federal district or in the territories, as the only tax, the limit whereof cannot be passed, up to \$6 per thousand, upon the value of the real estate and the machinery.

Art. 7. As is already established, the federation shall receive the federal twenty-five per cent. of the taxes, which, according to the foregoing articles, are to be levied by the states.

Art. 8. Any other tax, by whatever name may be given to it, except that of stamps, upon the extraction, production or profits of mines, upon the amount of ore treated, the production or the profits of metallurgical establishments, upon the capital invested in mines and metallurgical works, or in the shares and bonds of mines, or of any kind of metallurgical works, and upon the transfer of ownership of mining property and of metallurgical works, or of the shares that relate to them, is absolutely prohibited by this present law.

Art. 9. It is forbidden to the states to levy taxes on denunciations, possessions and other formalities necessary for the acquiring of mining property and of metallurgical works, or upon the organization of mining companies and the issuance of the stock or bonds thereof.

[Article 10 has been abolished by the law of 1892.]

Art. 11. During the term of ten years all establishments for wine-growing, silk culture and pisciculture shall be free from all federal taxes, except the stamp tax. In order to enjoy this exemption, such establishments must subject themselves to the conditions that will be fixed in the regulations relative thereto.

Art. 12. The executive is authorized to contract with railroad companies for the reducing of freight charges upon the national products intended for exportation according to the following conditions: *a*. The executive shall annually designate in the budget the quantity of money necessary to pay the sum that the companies are to receive for the services they may render according to this article. *b*. The ministers of the treasury and of public works shall dictate, two months before each fiscal period, the proper measures, so that the exporters in subsection thereto may enjoy the advantages that are conceded to them. *c*. Such products for exportation as are destined to enjoy the said reductions shall be divided into four classes, in which, according to the importance that they may continue acquiring, the executive shall place them every two years, publishing the said classifications with the anticipation.

LAW OF JUNE 6, 1887.

AUTHORIZING THE PURCHASE OF A PROCESS FOR BENEFICIATING ORES.

Article 1. The executive is hereby authorized to acquire, by a contract of purchase or of use, a process for the beneficiation of ores that shall especially apply to those of gold and silver, and which shall fulfill the following conditions: I. The loss in the treatment shall not exceed two per cent. of the contents of gold or silver in the ore. II. The cost of the treatment shall not exceed \$3 for every ton of ore. III. The cost of the machinery and apparatus to treat one thousand tons of ore per month shall not exceed \$2000.

Art. 2. The executive is equally authorized: I. To concede an especial patent for any term, up to twenty-five years, to the inventor or enterprise that shall plant the said process in this country. II. To concede to the same parties the introduction, free of duties for the time that the patent may last, and with due limitations, of the following articles: *a*. Materials that are to be exclusively employed in the construction of the machinery and apparatus for the beneficiation. *b*. Machinery and apparatus for the elaboration of the reagents that may be used in the process. *c*. The reagents that are employed in the beneficiation, while they are not produced in this country in such quantities as is necessary for the needs of the process, according to the estimate previously made by the enterprise and approved by the ministry of public works. All such importations shall be subject to the rules and limitations that may be laid down by the secretaries of the treasury and of public works. III. To concede to the enterprise an exemption from all taxes except the stamp tax, during the twenty-five years, for all the capital that may be invested exclusively in machinery and in apparatus for the beneficiation and for the production of the necessary reagents.

Art. 3. To agree with the enterprise as to the highest royalties that it can charge for the use of its process, taking for a basis the economy that may be occasioned thereby.

Art. 4. At the time of granting the patent and of conceding the exemptions to which the preceding articles refer, the executive shall have power to stipulate that the treasury shall receive a certain percentage, that he may consider just, of the royalties that the enterprise may collect from such persons as may make use of their process, and a like proportion of the profits that may result from the ores that they may work on their own account and for the account of other parties.

Art. 5. The executive will be careful to stipulate: I. That the apparatus and machinery shall be made in this country. II. That the enterprise shall sell the same to any person who may submit them for use in this republic, at a price not to exceed that mentioned in Article 1, and with the understanding that the cost of treatment and the loss of the precious metals shall not exceed that designated in the same article, under the guarantee of the enterprise. III. That the enterprise shall not charge for the use of the process, to anyone who may wish to employ it in this country, any royalties except those designated in the contract.

Art. 6. In case that the executive acquires the process by a contract of purchase, he must submit the same to the approval of congress.

LIST OF MINING COMPANIES AND OPERATORS IN THE UNITED STATES OF AMERICA

(SEE ALSO SUPPLEMENTARY LIST, PAGE H7)

ALABAMA

COAL BITUMINOUS

LOCATION OF MINE, RAILROAD, WATER ROUTE, AND SHIPPING POINT		NATURE OF COMPANY, ITS INDIVIDUAL LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, USUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF TOWEL USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT
TOWNS	COUNTY	
Adger Ry. 408.	Jefferson	De Bardeleben Coal & Iron Co., Bessemer, Ala. H. T. De Bardeleben, pres't. David Roberts, V. pres't. Andrew M. Alder, secy. and treas. Cap. stk. \$250,000. Hentevollen, Slopes, 165,000 tons. Steam, 250 coke ovens, capacity 100,000 tons. L. W. Johns, supt.
Aldrich Ry. 240	Shelby	Montevallo Coal & Transportation Co., W. L. Aldrich, pres't. and mgt. J. E. McManaway, treas. and secy. Cap. stk. \$200,000. Montevallo, Slope, 100,000 tons. Steam, W. T. Aldrich, supt.
Alexander City, Tallapoosa Ry. 408.		O. Christopher, Gadsden, Ala. Little Gunt, Slope, 100,000 tons. Steam, All. Bolandis, supt.
Birmingham Ry. 240, 280, 375, 408, 425, 622	Jefferson	Helene Coal Co., John L. Bentz, pres't. and mgt. Hebert, Co. Crocker, secy. and treas. Cap. \$200,000. Helene, Slope, 75,000 tons. Steam, Thomas A. Bider, supt.
Blount, Ry. 240, 408.	Bibb	The Cahaba Coal Mining Co., L. H. Adriel, pres't. and treas. John Hodge, secy. Contractors Cable, V. pres't. and mgt. Cap. stk. \$1,000,000. Six mines. Slope, shaft and drift, 750,000 tons. Steam, hoist, 105 coke ovens, capacity 100,000 tons. F. B. Thomas, supt.
Blossburg, Ry. 622	Jefferson	Shoss Iron & Steel Co., Birmingham, Ala. Thomas Seaton, pres't. W. L. Sims, secy. and treas. H. W. Perry, mgt. Cap. stk. \$2,700,000. Blossburg, Slope, 100,000 tons. Steam, hoist, breaker C. P. Beldin, supt.
Brookside Ry. 622	Jefferson	Shoss Iron & Steel Co., Birmingham, Ala. Thomas Seaton, pres't. W. L. Sims, secy. and treas. H. W. Perry, mgt. Cap. stk. \$2,700,000. Brookside, Open pit, drift, 250,000 tons. Steam, hoist, breaker C. P. Beldin, supt.
Brookwood Ry. 408.	Etowah	The Standard Coal Co., H. E. Emshen, pres't. L. M. Jackson, secy. and treas. and mgt. Cap. stk. \$500,000. Drift and slope, 100,000 tons. Steam, hoist, 202 coke ovens, capacity 85,000 tons.
Carbon Hill Ry. 55.	Walker	Carbon Hill and Lost Creek Coal Co., J. W. Shepherd, pres't. L. Blynn, secy. J. W. King, treas. and mgt. Cap. stk. \$150,000. Shaft, drift, steam, L. Blynn, supt.
"	"	McDonald Coal Co., F. A. Gamble, pres't. Daniel McDonald, secy. and treas. John McDonald, mgt. Cap. stk. \$300,000. Shaft, 350,000 tons. Steam, John McDonald, supt.
"	"	Morris Goss Mining Co., R. L. Goss, secy. and treas. O. R. Morris, mgt. Cap. stk. \$150,000. Miner and Ethel, Slope, shaft, 100,000 tons. Steam.
Cadiff Ry. 622.	Jefferson	Shoss Iron & Steel Co., Birmingham, Ala. Thomas Seaton, pres't. W. L. Sims, secy. and treas. H. W. Perry, mgt. Cap. stk. \$2,700,000. Cadiff, Open pit, drift, 250,000 tons. Steam, hoist, breaker, C. P. Beldin, supt.
Clements Depot Ry. 6.	Etowah	Gould & Son, Wm. A. Gould, pres't. secy. and treas. Thomas J. Gould, mgt. Cap. stk. \$200,000. Gould's Shaft, 145,000 tons. Steam, Wm. A. Gould, supt.
Coalburg, Ry. 622.	Jefferson	Shoss Iron & Steel Co., Birmingham, Ala. Thomas Seaton, pres't. W. L. Sims, secy. and treas. H. W. Perry, mgt. Cap. stk. \$2,700,000. Coalburg, Open pit, drift, 250,000 tons. Steam, hoist, breaker, C. P. Beldin, supt.
Coal City, Ry. 244	St. Clair	Coal City Mining Co., J. H. Vayon, pres't. John Postels, secy. and treas. W. P. Laramore, V. pres't. and mgt. Cap. stk. \$100,000. Nos. 1 and 2. Slope, 400,000 tons. Steam, 60 coke ovens, capacity 15,000 tons. Wm. Herbert, supt.
Condit, Ry. 6.	Etowah	Condit Coal & Coke Co., A. J. Fyle, pres't. S. Frank Perkins, secy. and treas. C. J. Perkins, mgt. Slope, 100 tons. Steam, S. Frank Perkins, mgt.
Cullinsville Ry. 612.	Cherokee	Wright & Adams, Leonard, Ala. Jewell, Open pit, 10 tons.
Cumminsville Mines Ry. 408.	Jefferson	Alumina-Cumminsville Coal & Coke Co., H. H. Finney, pres't. R. S. McIsaac, secy. and treas. C. G. Abertondine, mgt. and V. pres't. Cap. stk. \$300,000. Cumminsville Mines, Slope, 100,000 tons. Steam, 15 coke ovens, 20,000 tons. Edward D. Lewis, supt.

COAL—BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Corona	Walker	Corona Coal & Coke Co., Jasper, Ala., John Greenough, pres.; E. G. Storey, secy. and treas.; L. Bellus- grove, gen. mgr. Cap. stk. \$100,000. Corona Nos. 1, 2 and 3. Drifts, slope, 300,000 tons; steam, horse; breaker; washer; 30 coke ovens. Peyton Norvell, supt.		
Cullman	Cullman	Fuller, Parker & Co., Parker and Fuller, Pitt. hand, Marcell Schmitt, supt.		
De Berniere	Jefferson	Little Warrior Coal Co., Birmingham, Ala., National Bank Bldg., Richard Thomas, pres.; J. de B. Hooper, secy. and treas. Cap. stk. \$10,000. De Berniere. Slope, 30,000 tons; horse, steam.		
Gadsden	Etowah	Obal Christopher & C. A. Clayton. Gadsden Mines. Slope, 72,000 tons; hand, steam; breaker.		
"	"	The Sam Clayton Coal Co., 415 Broad St., J. S. Clayton, pres. and mgr.; J. M. Flood, secy.; M. C. McCully, treas. Cap. stk. \$10,000. Natchez. Tunnel, 5,000 tons; steam. Sam. Clayton, supt.		
Gamble Mines	Walker	Townley Coal & Coke Co., Jasper, Ala., J. C. Neely, pres.; J. B. Carrington, secy., treas. and mgr. Cap. stk. \$400,000. Gamble. Slope, drift, 130,000 tons; steam, compressed air; 300 coke ovens. A. P. Van Fleet, supt.		
Gurnee	Shelby	Excelsior Coal Co., T. H. Aldrich, pres. and treas.; A. H. Carpenter, secy.; Cornelius Cagle, mgr. Cap. stk. \$1,433,000. Anita and Buck Mountain. Slopes, 100,000 tons; steam. J. E. Strong, supt.		
Horse Creek	Walker	Dora Coal Mining Co., J. T. Morgan, pres.; R. E. Morgan, secy. and treas. Cap. stk. \$100,000. Dora. (P.O. Sharon) Ry. 351. Drift, 75,000 tons; horse. W. A. Gray, supt.		
"	"	Thomas Price & Co., Thomas Price & Co., pres. and mgr.; W. A. Price, secy. and treas. Cap. stk. \$25,000. National. Slope, 120,000 tons; steam. D. Hanton, supt.		
Inman	St. Clair	Inman Mines, St. Clair Coal Co., Ragland, Ala., R. L. Robinson, pres.; J. C. Mellichamp, secy.; Rees C. (P.O. Fairview) Ry. 234. Harris, mgr. Slope, tunnel, 25,000 tons; steam. Rees C. Harris, supt.		
Jasper	Walker	Coal City Coal & Coke Co., Birmingham, Ala., Room 4 Morris Bldg., R. D. Johnston, pres.; Joe R. Cook, secy. Coal City and Calhoun. Drifts, 40,000 tons; horse.		
Johns	Jefferson	De Bardeleben Coal & Iron Co., Bessemer, Ala., H. T. De Bardeleben, pres.; David Roberts, v. pres.; Ry. 408. Andrew M. Aldger, secy. and treas. Cap. stk. \$10,000,000. Blue Creek. Slopes, 146,335 tons; steam; 280 coke ovens, 106,550 tons. L. W. Johns, supt.		
"	"	Tuggle-Ellis Mining Co., J. D. Tuggle, pres. and mgr.; F. C. Ellis, secy. and treas. Cap. stk. \$100,000. Tettering. Open pit, 180,000 tons; horse. C. W. Hawkins, supt.		
Leonard	Cherokee	David T. Adams (locally). Open pit, 10 tons; hand.		
Lewinsburg	Jefferson	The Mary Lee Coal & Railway Co., J. A. Montgomery, pres. and gen. mgr.; T. M. Frazier, secy.; Geo. W. Ry. Birmingham 240. West, treas. Cap. stk. \$500,000. Mary Lee. Slope, 150,000 tons; steam; washer; 110 coke ovens, capacity 280,351, 422, 622. Wm. I. Gilmore, supt.		
Lockhart	Walker	Lockhart Coal Co., Corona, Ala., E. W. Coleman, pres.; T. C. Smithson, secy.; H. L. Smithson, treas. (P. O. and Ry. Corona 285. Sanders, mgr. Cap. stk. \$24,000. Lockhart. Slope, 24,000 tons; steam. A. D. R. Lather, supt.		
Morris	Jefferson	J. F. Rogers (locally). Rogers. Tunnel, 40 tons.		
Mounds	Jefferson	Althia Coal & Mining Co., Birmingham, Ala., Morris Bldg., W. M. Mayer, pres.; R. G. Malhot, secy. and Ry. 408, 622. treas.; C. R. Walker, mgr. Cap. stk. \$25,000. Althia. Slopes, 10,000 tons; steam. H. H. Graves, supt.		
Palos	Jefferson	Turner Coal Co., Birmingham, Ala., Morris Bldg., Chas. Turner, pres.; R. H. Turner, vice-pres. and gen. Ry. 351. mgr.; A. Lately, secy. and treas. Cap. stk. \$20,000. Turner. Tunnel, 90,000 tons; horse; washer. R. H. Turner, supt.		
Patton	Walker	Deer Creek Coal Co., Marietta, Ala., J. E. Cooke, pres. and gen. mgr. Cap. \$10,000. Deer Creek. Slope, Ry. 622. 20,000 tons; horse. Wm. Faul, supt.		
Pratt Mines	Jefferson	Tennessee Coal, Iron & R. R. Co., Thomas C. Platt, pres.; Jas. Bowron, secy. and treas.; G. B. McCor- Ry. 240, 351, 408. mack, mgr. Cap. stk. \$10,000,000. Pratt. Slope, shaft, drift, 1,250,000 tons; steam; washer, 1,035 coke ovens, capacity 425,000 tons. Erskine Ramsay, supt.		
Quinton	Jefferson	Reid & Glover, J. L. Glover, pres.; J. S. Reid, secy. and treas.; M. McLarity, mgr. Cap. \$200,000. Quinton. Ry. 351. Slope, steam. M. McLarity, supt.		
Ragland	St. Clair	Hudson & Co., Greenville, S. C., 207 Washington St., Frank Hamands, pres.; J. H. Morgan, secy., W. A. Ry. 234. Hudson, treas.; E. E. Clayton, mgr. Cap. stk. \$100,000. Tunnel, slope, 40,000 tons; washer, 10 coke ovens. E. E. Clayton, supt.		
"	"	St. Clair Coal Co., R. L. Robinson, pres.; J. C. Mellichamp, secy. and treas.; Rees C. Harris, mgr. Shaft and slope, 35,000 tons; steam, washer, 10 coke ovens, capacity 10,000 tons. Rees C. Harris, supt.		
Russellville	Franklin	Lady Ensley Coal, Iron & R. R. Co., W. M. Smide, pres.; Thos. D. Radcliffe, secy. and treas.; Walter Ry. 61. Moore, mgr. Cap. stk. \$30,000,000. Lady Ensley. 200,000 tons; steam. R. L. Williamson, supt.		
Shannon	Blount	De Bardeleben Coal & Iron Co., Bessemer, Ala., H. T. De Bardeleben, pres.; David Roberts, v. pres.; (P. O. Bessemer) Ry. Shannon 408. Andrew M. Aldger, secy. and treas. Cap. stk. \$10,000,000. Helena. Slope, 146,335 tons; steam; 280 coke ovens, capacity 106,550 tons. L. W. Johns, supt.		
Sumter	Jefferson	De Bardeleben Coal & Iron Co., Bessemer, Ala., H. T. De Bardeleben, pres.; David Roberts, v. pres.; Ry. 408. Andrew M. Aldger, secy. and treas. Cap. stk. \$10,000,000. Blue Creek. Slopes, 146,335 tons; steam; 280 coke ovens, capacity 106,550 tons. L. W. Johns, supt.		
Tuscaloosa	Tuscaloosa	Alabama Insane Hospital (locally). Shaft, 2,730 tons; steam. Dr. P. Bryce, mgr.		
"	"	A. Durie (locally). Cap. \$30,000. Shaft, 4,000 tons; steam.		
Warrior	Jefferson	Mabel Mining Co., T. M. Davidson, pres. and treas.; L. K. Moss, secy. and mgr. Cap. \$30,000. Mabel. Ry. Watts 408. Tunnel, 30,000 tons; horse. L. K. Moss, supt.		
"	"	Watts Coal & Iron Co., A. W. Graham, pres.; W. C. Ruffin, secy., treas. and mgr. Cap. stk. \$210,000. Watts. Open pit, 50,000 tons; horse; 33 coke ovens, capacity 120,000 tons. W. C. Ruffin, supt.		
Wymond	Jefferson	Trussville Furnace & Mining Co., Trussville, Ala., R. D. Smith, mgr. Cap. stk. \$800,000. Bradford. Slope, Ry. 408. 60,000 tons; steam; 103 coke ovens, capacity 25,000 tons. Harry Watkins, supt.		

GOLD AND SILVER

TOWN AND COUNTY	LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
Edwardsville Ky. 622.	Cherokee	J. B. Merrill Co., J. B. Merrill, pres.; Wm. Hamilton, secy.; F. C. Merrill, treas.; John Driesbach, mgr. Pneumatic, gold, 100 tons; refractory; steam, 10 stamps. John Driesbach, supt.	

IRON

TOWN AND COUNTY	LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
Alios, Fossie 108.	Jefferson	J. R. & C. J. Smith, Fossie, Ala. A. J. Ferrell, mgr. Fossie, Wares, Muscadine, red ore. Slopes, 300,000 tons; steam; furnace. A. J. Ferrell, supt.	
Anniston Ky. 408.	Calhoun	Woodstock Iron Co., T. G. Bush, pres.; J. W. Stillwell, secy. and treas.; S. N. Noble, mgr. Cap. stk. \$300,000. Woodstock, brown hematite. Open pit, 150,000 tons; steam, horse 2 furnaces, 60,000 tons. John Ballard, supt.	
Attalla Ky. 35, 126, 240, 408.	Etowah	Attalla Mining & Manufacturing Co., Chattanooga, Tenn., 408 Richardson Bldg. W. M. Nixon, pres. and treas.; John C. Knox, secy.; Geo. W. Nixon, mgr. Cap. stk. \$300,000. Attalla, Winchester, red fos- siferous. Tunnel, 60,000 tons; horse. John C. Knox, supt.	
"	"	William Nickson, Chattanooga, Tenn. Attalla. Tunnel, 60,000 tons; hand, steam. John Knox, mgr. and supt.	
Bessemer Ky. 408.	Jefferson	Sloss Iron & Steel Co., Birmingham, Ala. Thomas Seddon, pres.; W. L. Sims, secy. and treas. Sloss, red hematite. Slope, 200,000 tons; steam and compressed air. C. P. Linding, supt.	
Briarfield Ky. 240.	Bibb	Alabama Iron & Steel Co., T. J. Peter, pres.; E. T. Peter, secy. Cap. stk. \$1,000,000. Bibb, brown hematite. Open pit, 20,000 tons; furnace.	
Cedar Bluff Ky. Lawrence 240.	Cherokee	Burnett & Snyder, R. Lawrence, pres. and gen. mgr. James F. Burnett, secy. and treas. Cap. stk. \$300,000. Stallings, red fossiliferous. Slope, 1 N. Tunnel, supt.	
Champion Ky. 408.	Blount	J. W. Worthington & Co., Birmingham, Ala. Cap. \$1,000,000. Champion, brown hematite. Open pit, steam, washer. W. A. Wall, supt.	
Gadsden Ky. Thomson's Switch 622.	Etowah	Bean Mining Co., Robert Bean, mgr. Red hematite. Slope, 12,000 tons; horse.	
"	"	Fitzgerald & Smith, etc. Broad st. P. S. Fitzgerald, pres.; secy. and treas.; Louis Smith, mgr. Cap. \$50,000. Red hematite. Tunnel, 6,000 tons; hand, horse. Louis Smith, supt.	
"	"	Gadsden Iron Co., A. J. A. Crawford, pres.; F. W. Stewart, secy.; treas. and mgr. Gadsden, red hematite. Open, 12,000 tons; hand.	
"	"	J. W. Hammond, Cap. \$300,000. O'Connell, red hematite. Open pit, 10,000 tons; horse, steam, furnace, 100 tons. J. W. Hammond, supt.	
"	"	James G. Thomson. Red fossiliferous hematite. Slope, open pit, 1,500 tons; horse.	
Irondale, Ky. Rutherford 622.	Jefferson	Sloss Iron & Steel Co., Birmingham, Ala. Thomas Seddon, pres.; W. L. Sims, secy. and treas. Sloss Irondale, red hematite. Drift, 12,000 tons; gravity. Thomas A. Culverhouse, supt.	
Kashin Ky. James Switch 240.	De Kalb	J. M. Cox, Cap. \$1,000. Kashin, red fossiliferous. Tunnel, open pit, 6,000 tons; horse.	
Laney Ky. 408.	Calhoun	J. C. Laney & J. L. Lane, J. C. Laney, gen. mgr. Cap. \$100,000. Laney's, red and brown hematite. Tunnel, open pit, hand. W. T. Burk, supt.	
"	"	J. F. Lane & Co., Cap. \$100,000. Bonanza, brown hematite. Open pit, 20,000 tons; hand. Chas. Travis, supt.	
Rendalia Ky. 408.	Laladega	Reynolds Iron Co., Col. Gordon McKay, pres.; W. A. Glover, mgr. and treas. Cap. \$100,000. Reynolds, brown hematite. Open pit, 60,000 tons; steam. W. A. Glover, supt.	
Russellville Ky. 61.	Franklin	Lady Evelyn Coal, Iron & R. R. Co., W. M. Smide, pres.; Thos. D. Radcliffe, secy. and treas.; Walter Moore, mgr. Cap. stk. \$100,000. Lady Evelyn, hematite, 150,000 tons; steam, washer, R. L. Will unson, supt.	
Shelby Ky. 408.	Shelby	Shelby Iron Co., T. G. Bush, pres.; H. C. Cooper, secy.; N. S. Gurney, treas. Shelby, brown hematite, furnaces.	
Tecumseh Ky. 234, 240.	Cherokee	Tecumseh Iron Co., P. U. Moore, pres.; P. B. Warner, secy.; S. J. Feiring, treas. and mgr. Cap. stk. \$300,000. Baker Hill, brown hematite. Open pit, 50,000 tons; furnace, 15,000 tons.	
Warrior, Ky. 408.	Jefferson	Hoene Warrior & Jefferson Coal Co., B. H. Frank Hoene, pres.; mgr. and treas.; W. A. Hoene, secy. Cap. stk. \$100,000. Hoene Warrior, black band. Drift, slope, steam. W. A. Hoene, supt.	

MINERAL PAINT

TOWN AND COUNTY	LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
Coosada Station Ky. 408.	Elmore	Gayle & Temple, Montgomery, Ala. Yellow ochre. Tunnel, 700 tons; steam.	
Jackson Ky. 402, 768.	Clarke	Jackson Golden Ochre Co., A. M. Wing, pres.; Geo. W. Fowler, secy. and treas. M. L. Platchett, mgr. Cap. stk. \$100,000. Yellow ochre. Tunnel, steam.	
Perdue Hill Ky. Calhoun 7.	Monroe	Calhoun Ochre Co., Selma, Ala. R. H. Azee, pres. and mgr. H. P. Azee, secy. W. C. Azee, treas. Cap. stk. \$50,000. Yellow ochre. Open pit.	

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMESTONES AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Bridgeport	Jackson	Bridgeport Stone Co., Frank H. Edwards, pres. and mgr., J. Bradley Patterson, secy. and treas., Cap. stk. \$10,000. Deftford and Riverside, gray sandstone and blue limestone. Open pit; horse, hand. A. McRae and Jas. Kelly, supts.		
	Ry. 430, 482, 746.			
Ishell	Franklin	Ishell Quarry Co., Charles F. Conrad, pres. and mgr. Limestone for fluxing.		
	Ry., Darlington 61.			
Luyenne	Oreanaw	C. R. Bruckel & Co., Cap. \$5,000. Limestone. Steam; limekilns.		
	Ry. 6.			
Rock Springs	Etowah	C. Mudgeley & Co., Cap. \$6,000. Rock Spring, limestone. Open pit, 30,000 tons; steam; limekiln, 900 tons.		
	Ry. 408.			
South Florence	Colbert	Florence Cotton & Iron Co., Philadelphia, Pa., 330 Walnut St., Abraham S. Patterson, pres.; James Pollock, secy. and treas.; Daniel King, mgr. Limestone. Open pit, 45,000 tons; steam. Thomas Keele, supt.		
	(P. O. Florence) Ry. 408.			

SEE ALSO SUPPLEMENTARY LIST

ALASKA

COAL BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY	
Killisnoo, All shipments to and from Alaska points via Pacific Ocean 552.	James McCluskey. Open pit, hand.
Seward Cook's Inlet	Alaska Coal Co., San Francisco, Cal., 216 Sacramento st., W. H. Eastland, pres't., S. M. Eastland, Califor- nia State Deposit & Trust Co., treas.; W. T. Robinson, mgt.; Cap. stk. \$2,000,000. Washed, tunnel, 1,500 tons, hand; W. T. Robinson, supt.
Unga Island, P. O. Victoria, B. C.	Coal Harbor Coal Mining Co., San Francisco, Cal., 401 California st., Irwin C. Stump, pres't., C. W. McVee, Cypres't., J. R. Howell, secy.; A. S. Baldwin, treas.; John C. Green, mgt.; Cap. stk. \$2,000,000. Tunnels, 15,000 tons, steam.

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, AND KIND OF MINE SUPERINTENDENT.
TOWN AND COUNTY	
Douglas Douglas Isl. All shipments to and from Alaska points via Pacific Ocean 552.	Alaska Treadwell Gold Mining Co., San Francisco, Cal., 426 Montgomery st., William Alvord, pres't., A. T. Collins, secy.; J. P. Collins, treas.; R. Duncanson, mgt.; Cap. stk. \$5,000,000. Alaska Treadwell gold. Open pit, shaft, tunnels, 40,000 tons, free and refractory, steam, 40 stamps; R. Duncanson, supt.
" "	The Fairview Mining Co., Fairview gold and silver. Tunnel, free.
Fish River Alaska P. O. Sitka, Golovin Bay 552.	The Omak Gold & Silver Mining Co., San Francisco, Cal., 401 California st., John C. Green, mgt.; Cap. stk. \$600,000. Fish River No. 2 gold. Tunnels, free, steam, 1 free shaft, supt.
Juneau Kauai	Rishnick Mining & Milling Co., Portland, Ore., S. A. Allen, pres't., Fred Goetz, secy.; J. S. Spencer, treas. Cap. stk. \$60,000. Rishnick No. 2 gold. Tunnels, free, steam, 1 free shaft, supt.
" "	Archibald Campbell. Tunnel, free, gold and silver. Tunnels and placer, 900 tons, free and refractory, water, 15 stamps and pulverizer.
" "	Denver Summit Gold Co., Boston, Mass., 275 Washington st., Harry S. Felt, pres't., treas.; F. L. H. Olson, secy.; Winton W. Felt, mgt.; Cap. stk. \$60,000. Denver Summit No. 2 gold. Tunnel, free and refractory, steam, 30 stamps; M. L. Felt, supt.
" "	Juneau Mining & Milling Co., Juneau, W. S. M. Wadell, pres't., R. H. Downing, secy.; J. P. Miller, treas.; Wm. M. Fisher, mgt.; Cap. stk. \$15,000. Gold. Tunnel, 1,000 tons, free, water, 30 stamps; Wm. M. Fisher, supt.
" "	East Channel Placer Mining Co., Cap. \$30,000. East Channel gold. Placer, 1,500 lbs.; William Nelson, supt.
" "	North Gold Mining Co., Portland, Maine. Thos. S. Noyes, pres't.; Arthur K. Noyes, secy.; Hon. Albert A. Howard, treas.; Fred K. D. Noyes, mgt.; Cap. stk. \$200,000. Gold and silver. Hydraulic, 1,000 tons, water, 20 stamps; John D. S. Jd.
" "	Shuck Bay Placer Mining Co., Jersey City, N. J., 141 Montgomery st., Shuck Bay gold. Placer, water. Start & Reed, Phillips Start, secy.; W. L. Reed, treas.; Good. Open, free, steam and water.
" "	Willingby & Wren. Cap. \$15,000. Willingby & Wren gold. Steam, open, refractory, water, water, 5 stamps.
" "	H. S. Wynnan. Dora gold. Tunnel, free, water, hydraulic.

SEE ALSO SUPPLEMENTARY LIST

ARIZONA

COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Clifton, Graham Ry. 622.	Arizona Copper Co., Ltd., James Colquhoun, pres., and mgr.; J. G. Hopkins, secy. and treas., Cap. stk. \$8,000,000. Longfellow, Metcalf, Simpson and Coronado Groups, copper. Shafts, tunnels and open cuts, 50,000 tons; self-fluxing and siliceous; water and steam; water jacket, 70,000 tons. James Colquhoun, supt.
" "	Silver & Copper Cliff Mining Co., Nevada, Mo., Will F. Norman, pres.; J. D. Weyner, secy.; W. H. Robinson, treas., Copper Cliff, copper. Tunnels and shafts; carbonates and black sulphides.
Globe, Gila Ry. Wilcox 622.	Old Dominion Copper Co., Baltimore, Md., Keyser Bldg., Wm. Keyser, pres.; Jos. Chendenin jr., secy.; R. Brent Keyser, treas., Old Dominion, copper. Shaft, 38,000 tons; steam; 3 water jackets, 50,000 tons, A. L. Walker, supt.
Morenci, Graham Ry. Clifton or Lordsburg 19, 622.	Detroit Copper Mining Co. of Arizona, New York City, 93 John St., Wm. Church, pres., and mgr.; Jos. Van Vleet, secy. and treas., Copper Mountain and others, copper. Shafts, tunnels and pits, 25,000 tons, steam, 4 water jacket furnaces, Gordon McLean, supt.
Pantano, Pima Ry. 26, 622.	W. B. McCreary, Niagara Group, copper. Shaft and tunnel, 9,000 tons; oxide and carbonate; horse.
Theson, Pima Ry. Desert 622.	J. K. Gooding, P. O. Box 226, Cap. \$100,000, Young America, copper. Shafts, tunnels and levels, 9,000 tons; oxide; steam; water jacket furnace, 25 tons.

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Agua Fria Valley, Yavapai Ry. Prescott 604.	Frank McCabe, Gladstone, gold. Shafts and tunnels, 300 tons; refractory; horse and hand.
" "	Willard Rice, Cornucopia, gold and silver. Open pit and shaft; free; water.
Arivaca, Pima Ry. Theson 622.	Ates & Wiece, Red Rock, silver. Shaft and tunnel; free; hand.
" "	Wm. J. Clark, Theson, Ariz., Horn Silver, gold, silver and lead. Shafts and tunnels, 50 tons; free and refractory.
" "	John P. Hedigan, Cap. \$50,000, Hedigan, gold. Tunnel; free; steam; 10 stamps.
" "	John Sexton, Cap. \$5,000, Cockatoo, Ballarat and Broken Hill, gold and silver. Tunnels and shafts, 100 tons; refractory; hand.
Castle Dome Ldg., Yuma (P. O. Yuma) Ry. 622.	Hodges Bros., Yuma, Ariz., Cap. \$5,000, Washington, silver and lead. Shaft, 350 tons; free and refractory; horse and hand.
Cedar Valley, Mohave P. O. and Ry. Kingman 26.	Diamond Joe Mining Co., Diamond Joe, silver, copper and lead. Shaft and tunnel, 150 tons, refractory; hand.
Cherry, Yavapai Ry. Prescott 604-32 10.	James E. & John Allen, Wheatley, Mammoth. Shaft, open cut, 20 tons; free; water; mill.
" "	Mocking Bird Mining & Milling Co., Richard De Kuhn, pres., and mgr.; Clarence Williams, secy. and treas., Cap. stk. \$4,000, Mocking Bird and 4 others, gold. Shaft and tunnels, 3,000 tons; free; steam; 10 stamps, Richard De Kuhn, supt.
" "	J. H. B. Smith, Cap. \$2,500, Rocky Pass, gold. Tunnel and slope, 300 tons; free; water.
Chloride, Mohave (P. O. Mineral Park) Ry. Kingman 26.	Hampton, McMillen & Co., Mineral Park, Ariz., Ram Bow, gold and silver. Tunnel, shafts and slopes, 200 tons; free and refractory, hand, H. B. Hampton, supt.
Clifton, Graham Ry. 19.	Golden Eagle Gold & Silver Mining & Smelting Co., Bangor, Me., 67 Harlow St., Arthur C. Higgins, pres.; S. Willis Whitcomb, secy. and treas., Cap. stk. \$200,000, Golden Eagle and 2 others, gold and silver. Tunnel, drift; free, refractory, hand (developing), J. L. Smart, supt.
Cottonwood, Yavapai Ry. Prescott 604.	Minds, Campbell & Olsen, Supply, Nozarth and Cross Cut, gold. Shaft, free; steam; arrastre.
Crown King, Yavapai Ry. Prescott 604.	Crowned King Mining Co., Elmberg, Ill., O. F. Place, pres.; N. C. Sheldes, secy., Geo. P. Harrington, treas., Cap. stk. \$2,000,000, Crowned King, gold and silver. Tunnel, 6,000 tons; refractory; steam 10 stamps, John Martin, supt.
Dos Cabezas, Cochise Ry. Wilcox 622.	Oak Grove Mining & Milling Co., Chas. S. Atkin, mgr., Glenwood, Oak Grove and others, gold and copper. Shafts, 200 tons; free, steam and horse, Dyer mill and concentrator, Chas. S. Atkin, supt.
Dragon, Summit Cochise Ry. 622.	N. Bell, Pines Altos, N. M., Santa Lucid, gold and lead. Shafts, 700 tons; free and refractory, hand, N. Bell, supt.
Globe, Gila Ry. Bowie 622.	Fame Mining Camp, Chas. Denhard, mgr. and supt., Fame, silver. Tunnel; free; hand.
" "	R. F. Humphrey, Gold and silver. Shaft; free; hand.
" "	C. Rockelshausen, Box 102, London, Bartford and 2 others, silver. Open pit, shaft, tunnel and slope, free.
Gold Basin, Mohave Ry. Hackberry 26.	Carry & Merrill, Christmas Gift, gold. Tunnel, 1,000 tons; free; water, arrastre.

GOLD AND SILVER (CONTINUED).

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.		
TOWN	AND	COUNTY			
Gold Basin	Mohave		O. K. Mining & Milling Co., Kansas City, Mo., New England Bldg., Milton Welsh, pres.; C. Kinney, secy.; (Continued.)	Newton Welsh, treas.; Frank Welsh, mgt. Cap. stk. pd. \$800,000. O. K. and Excelsior, gold. Shafts and tunnels, 6,000 tons, free; steam, 10 stamps. R. G. Patterson, supt.	
"	"	"	Henry Schaefer,	Cap. \$75,000. Mountain View, Miners' Delight, gold and silver. Shaft; free.	
Greenterville	Pima		Cornelia Mining Co., St. Louis, Mo., H. V. Kent, pres.; J. H. Smbornton, secy. Monitor, silver and Ry. Sonoma 26.	lead. Shafts; refractory (developing).	
"	"	"	Thomas Deering,	Belmont, gold, silver and lead. Tunnel and shaft; refractory; hand (developing).	
Gunsight	Pima		Silver Girl Mining Co., Kansas City, Mo., 16 and 17 Gibraltar Bldg., E. B. Wingate, pres.; Morton Thayer, Ry. Gila Bend 622.	secy., treas. and mgt. Cap. stk. \$10,000,000. Gunsight and Silver Girl, silver. Shafts and tunnels, 15,000 tons; refractory; steam, 20 stamps. James F. Ryan, supt.	
Harqua Hala	Yuma		Bonanza & Golden Eagle Mining Co., A. G. Hubbard, pres.; mgt. and supt., H. L. Harris, secy.; G. W. Ry. Aztec 122.	Bowers, treas. Cap. stk. \$200,000. Gold Mountain, gold. Shafts, 25,000 tons, free; steam, 20 stamps.	
"	"	"	Hubbard & Bowers,	A. G. Hubbard, pres. and mgt.; H. E. Harris, secy.; Wells, Fargo & Co., Bank, treas. Cap. stk. \$200,000. Harqua Hala, Bonanza and Golden Eagle, gold. Shaft, 28,800 tons; free; steam, 20 stamps. A. G. Hubbard, supt.	
Kingman	Mohave		Arkansas & San Antonio Mining & Milling Co., East St. Louis, Ill., Wm. Stroth, pres.; J. H. Donnemwald, Ry. 26.	secy., F. H. Miller, treas.; O. F. Kueser, mgt. and supt. Cap. stk. \$200,000. Arkansas and San Antonio, gold and silver. Shaft; steam (developing).	
"	"	"	Bowers & Co.,	F. F. Baldwin, mgt. Night Hawk, gold and silver. Tunnel and shaft, refractory; tunnel, G. M. Bowers, supt.	
"	"	"	Foster S. Dennis & J. J. Jerome,	Cap. \$20,000. Tiburo, silver and lead. Shaft, refractors, horse (develop- ing). J. J. Jerome, supt.	
"	"	"	Gold Bug Mining Co., Colorado Springs, Colo., J. Hagerman Block, Walter F. Crosby, pres.; W. H. Leonard, secy. and treas.; Robert J. Grant, mgt. Cap. stk. \$100,000. Gold Bug, gold. Shaft, free; horse (developing).		
"	"	"	John Lynch & F. S. Dennis,	Cap. \$50,000. C. O. D., gold, silver and lead. Shaft, 8,000 tons, refractory; steam, pulverizers, Chas. Lynch, supt.	
"	"	"	Primrose Mining Co.,	G. M. Bowers, mgt. and supt. Primrose, silver. Shaft, refractory (developing).	
Lost Basin	Mohave		M. Scandian,	Cap. \$15,000. Julia and Memo, gold. Tunnel, 100 tons, refractory, water, arrastre.	
P. O. Gold Basin Ry.	Haekberry 26.				
Mammoth	Pinal		Mammoth Gold Mines, Ltd., London, England, 257 Winchester House, Old Broad St., James Hastings, Ry. Tucson 62	pres.; Charles Goodwin, secy.; Joseph W. Johnston, mgt. Cap. stk. \$2,500,000. Mammoth, gold. Shaft, 25,000 tons, free; steam, 50 stamps. Andrew J. Collins, supt.	
Mineral Park	Mohave		C. E. Sherman,	Dustall, gold and silver. Shaft, 500 tons, refractory; steam. F. W. Thies, supt.	
Ry. Kingman 26	"		Stephen Smith,	Sanger, gold. Tunnels and shafts, refractory; horse (developing).	
Nogales	Pima		H. A. Read,	St. Patrick and San Francisco, silver. Shaft, tunnel, 1,000 tons, free; steam, 5 stamps. M. Ry. Calabasas 26	W. Read, supt.
Oro Blanco	Pima		Anstett Gold Mining Co., Norwalk, Conn., Walter T. McCoy, pres.; Frank A. Mitchell, secy. and treas.; Ry. Tucson 62 (S. M. C.)	C. W. Keimpton, mgt. and supt. Cap. stk. \$200,000. Anstett, gold and silver. Tunnel and open pit, free; steam.	
"	"	"	G. Jenkins & V. Haeker,	Silver Prince, gold, silver and lead. Shaft, 100 tons; hand (developing).	
Phoenix	Mariopa		Stockton Consolidated Mining Co., Stockton, Cal., C. C. Castle, pres.; C. M. Kenston, secy. and treas.; Ry. 429.	C. F. Philcox, mgt. Cap. stk. \$200,000. Meta and Kallio, gold, silver, copper. Shaft and tunnel, free.	
Pinal (near P. O.)	Pinal		Pinal Consolidated Mining Co., San Francisco, Cal., 509 Montgomery St., B. Hart, pres.; A. S. S. Chem- Ry. Casa Grande 76	mand, secy. and treas.; J. C. Thompson, mgt. Cap. stk. \$200,000. Pinal, lead and silver. Tunnel, 10,000 tons, refractory. J. C. Thompson, supt.	
Prescott	Yavapai		Alvord Mining & Development Co., Liberty Chambers St., pres.; L. Jerome M. Fort, secy. and treas.; Chas. M. Ry. 694	Clark, mgt. Cap. stk. \$1,000,000. Silver Bell, silver. Shaft, steam, water, tunnel, steam, 180 tons. C. M. Clark, supt.	
"	"	"	J. W. Archibald & A. Koelke,	Cap. \$1,000. Frankford, gold and silver. Shaft and tunnel, 100 tons, refractory; hand.	
"	"	"	Cathryn Silver Mining Co.,	W. L. Polley, pres. and mgt.; H. Arthur Seag, secy. Cap. stk. \$25,000. Cathryn, gold, silver and lead. Tunnel and shafts, 500 tons, refractory; steam and water, 10 stamps. J. W. Woodruff, supt.	
"	"	"	Chas. M. Clark,	Cap. \$200,000. Silver Bell, silver. Shaft, 10 tons, refractory; steam, 10 stamps.	
"	"	"	Commercial Mining Co.,	New York City, 100 John St., Jas. Douglas, pres.; Geo. Neffing, secy. and treas. Senator, gold and silver. Shaft and tunnel, 100 tons, refractory; steam and water, 10 stamps. J. S. Douglas, supt.	
"	"	"	Congress Gold Mining Co.,	L. M. Dickes, pres. and treas.; L. M. Murphy, secy. and mgt.; C. O. Clark, supt. Congress, gold. Shaft, 50,000 tons, refractory; steam, 10 stamps. L. M. Murphy, supt.	
"	"	"	Shirley & Webber,	Cap. \$12,000. Farned, gold. Tunnels, 1,000 tons, free; steam, 10 stamps. J. J. Shirley, supt.	
"	"	"	Webb & Myers,	Silver, copper and lead. Shaft and tunnel, refractory; hand (developing). C. E. Myers, supt.	
Queen City	Pima		Peer, Peerless & Cooper Mining Co., San Francisco, Cal., 1 Nevada Bldg., W. S. Fox, pres.; A. G. Ry. 692	Waterman, secy. Nevada Park, treas. Cap. stk. \$200,000. Peer, Peerless, Crow & Wood, silver. Tunnel and shaft, free; steam, 70 stamps. D. C. Parker, supt.	
Red Rock	Pinal		Arizona Consolidated Gold and Silver Mining Co., Green Bay, Wis., James H. A. Moore, pres.; M. M. Co- Ry. 692	nick, secy. and treas.; D. F. Timon, mgt. Cap. stk. \$200,000. Red Rock, gold and silver. Shaft and tunnel, 1,200 tons, free; refractory; steam, 10 stamps. D. F. Timon, supt.	

GOLD AND SILVER—(CONTINUED).

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC. AND NAME OF MINE SUPERINTENDENT.
Silver King Ry. Casa Grande 622.	Pinol	D. M. Hyde. Old Bonanza Terror, silver. Open cut and tunnel; free hand (developing).
"	"	John M. McCaffrey. Edison Group, gold, silver, copper and lead. Shaft and tunnel, refractory; hand (developing).
"	"	Silver King Mining Co., San Francisco, Cal., 310 Pine St., Rooms 15 and 17. Thomas M. Thedy, pres.; J. W. Tew, secy.; California Bank, treas.; Josiah Champion, mgr. Cap. stk. \$1,000,000. Silver King, silver and lead. Shaft, 250,000 tons, refractory, steam, 40 stamps, smelter. Josiah Champion, supt.
"	"	South Comstock. Wm. H. Lempler, pres.; W. E. Tutten, secy. and treas. Cap. stk. \$100,000. S. Comstock, Berlin, Sierra and California, gold, silver and copper. Tunnel and shaft, refractory, hand. W. H. Lempler, supt.
Skill Valley. Ry. Robert's Mill 26.	Avayapan	Paul Loske, Copper Basin, Ariz. Washington, gold. Shaft, 300 tons; refractory, hand. Geo. Cooper, supt.
Stanton Ry. Prescott 26, 292.	Avayapan	J. A. Conner. Johnston Group, gold and lead. Shaft and tunnel, 10 tons, free and refractory, 10 stamps.
Tombstone Ry. Fairbank 26.	Cochise	J. Murray Bailey, San Francisco, Cal., 18 Post St. C. O. D., silver. Shafts and drifts; free, horse and hand (developing).
"	"	Telephone Mining & Reduction Co., San Francisco, Cal., 18 Post St. J. B. Mcchesney, pres.; J. Murray Bailey, secy.; Treas. and mgr. Cap. stk. \$1,000,000. Telephone, silver. Shafts and drifts, 200 tons; refractory, whim. John Haley, supt.
Tolson Ry. 692	Pinol	Eagle Gold Mining Co., Burlington, Iowa. N. S. Young, pres.; A. H. Kuhlmann, secy. and treas. Cap. stk. \$200,000. Saginaw and others, gold, silver and lead. Shafts, 1,000 tons, refractory, steam. Chas. T. Connel, supt.
"	"	Iowa Mining Co., Cedar Rapids, Iowa. Dr. James Carson, pres.; M. T. Rotherheld, secy. and mgr.; J. B. Leigh, treas. Cap. stk. \$600,000. Blue Jay, silver. Shafts and tunnels, 300 tons, refractory.
Victor P.O. and Ry. San Simon 692	Cochise	Victor Mining Co., Chicago, Ill., 81 La Salle St., Room 202. Cap. stk. \$10,000. Victor Group, silver and lead. Tunnel, refractory (developing). Thomas Buhls, supt.

MICA.

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC. AND NAME OF MINE SUPERINTENDENT.
Tupson Ry. 692	Pinol	Carl Beck. Lela, Little Ida, Matte D., Prince Carl. Pit, hand.

STONE, MARBLE, GRANITE AND ONYX.

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERICKS AND CAPACITY, ETC. AND NAME OF MINE SUPERINTENDENT.
Cave Creek P.O. and Ry. Phoenix 119	Mohave	McCusey & Lullis, Phoenix, Ariz., Commercial Hotel. G. H. N. Lullis, pres. and treas.; John McCusey, mgr. Cap. \$25,000. Onyx. Pit, hand. John McCusey, supt.
Seligman Ry. Prescott June 26.	Avayapan	Red Mesa Stone & Flagging Co., Albuquerque, N. M. Albert F. Edly, pres.; C. A. Hawks, secy. and treas. Cap. stk. \$100,000. Red Mesa. Pit, hand, stone mill. C. D. Anderson, supt.

SEE ALSO SUPPLEMENTARY LIST

ARKANSAS

COAL-BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY, OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, KIND OF OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COAL OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Baldwin	Washington	Co.	J. N. Clark, Fayetteville, Ark.	L. T. Rice, mgt., Cap. \$400, Black Diamond, Tunnel, 800 tons, hand, Ry. Fayetteville 730.
Coal Hill	Franklin	Co.	Black Diamond Coal Co., Dr. Weber, prest., D. L. Bootline, secy., treas. and mgt., Cap. stk. \$4,000, Black Diamond, Slope, 10,000 tons, steam.	S. P. Cline, supt.
"	"	"	Onita Coal Co., M. H. Chitt, prest., J. A. Mitchell, secy., A. Lloyd, mgt., Cap. stk. \$10,000, Onita, Slope, 10,000 tons, steam.	L. A. Klein, supt.
Fayetteville	Washington	Co.	S. A. Lamons, Cap. \$20,000, Fayetteville, Tunnel and open pit, 5,000 tons, horse and hand.	
"	"	"	Isaac Taylor, local, Taylor, Slope, hand.	
Greenwood	Sebastian	Co.	South Western Coal Mining Co., J. P. Burton, prest. and mgt., C. W. Phillips, secy. and treas., Cap. \$8,000, South Western, Slope, 20,000 tons, steam.	J. P. Burton, supt.
Hackett,	Sebastian	Co.	Buzan Mining & Coal Co., John W. Buzan, prest. and mgt., James Murry, secy., Mrs. M. J. Buzan, treas., Cap. stk. \$8,000, The Buzan, Slope, 10,000 tons, steam.	
Huntington	Sebastian	Co.	Kansas & Texas Coal Co., St. Louis, Mo., corner Fifth and Ollian sts., B. H. Holbert, prest., W. P. Heath, secy. and treas., John R. Bradwood, mgt., Anderson's, Ship. Pitt, 500 tons, horse, James Russell, supt.	
Jenny Lind	Sebastian	Co.	Peter McMullan, Cap. \$1,000, Shaft, 1,000 tons.	
"	"	"	E. R. Petty, Cap. \$1,000, Petty's, Slope, 10,000 tons, steam.	A. F. Gardner, supt.
"	"	"	Western Coal & Mining Co., St. Louis, Mo., corner Sixth and Locust sts., Edwin Gould, prest., D. S. H. Smith, secy. and treas., R. M. McDowell, mgt., Cap. stk. \$100,000, Jenny Lind, Tunnel to Shaft and Slope, 18,000 tons, steam.	L. P. Seely, supt.
Lester	Ozark	Co.	Arkansas Coal, Gas, Fire Clay & Manufacturing Co., St. Louis, Mo., Larche Bldg., J. C. Clarke, Mable, V. pres., J. B. Clements, V. pres. and mgt., Ed. Haglund, secy. and treas., Cap. stk. \$20,000, Canfield and Canfield, Tunnel, steam, 6,000 tons, R. Halbard, supt.	
Margrave	Union	Co.	Pet. Jean Oil & Mineral Co., Little Rock, Ark., 22 W. Fifth St., Dr. P. H. Fredegar, prest., Leonard Adams, secy., Vincent F. Vost, treas., R. E. Kennedy, mgt., Cap. stk. \$80,000, Open pit, steam, Tunnel, 10,000 tons, supt.	
Onita	Pope	Co.	Onita Coal Mining Co., East Scott, Kan., Onita, Slope, 1,000 tons, steam, breaker and washer, W. R. Luster, supt.	
Russellville	Pope	Co.	Carpe Coal Co., Hinfelinson, Kan., Slope, steam.	
"	"	"	A. Popkiss, local, The Hawley, Slope, 10,000 tons, steam, hand.	
"	"	"	Ed. N. Sweet & Co., Cap. \$100, Slope, 10,000 tons, steam, J. K. Sweet, mgt.	
Strickler	Washington	Co.	A. E. Hodges, local, Open pit, hand.	

COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY, OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, KIND OF OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Silver City	Montgomery	Co.	Frank Pease, Diamond, 100 tons, open pit, open pit, Shaft, 100 tons, hand, Ry. Hot Springs 700.	

FIRE CLAY.

LOCATION OF MINE, OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.			NAME OF COMPANY, OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.	
TOWNS	AND	COUNTY		

Lester	Ozark	Co.	The Arkansas Coal, Gas, Fire Clay & Manufacturing Co., Hot Springs, Ark., J. C. Clarke, Mable, V. pres., J. B. Clements, V. pres. and mgt., E. Haglund, secy. and treas., Cap. stk. \$20,000, Canfield, Tunnel, steam.	
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GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY	
Anthony Howard Ry., Nashville 22.	United States Anthony Co., Philadelphia, Pa., 336 Drexel Bldg., Samuel Richards, pres.; R. M. Smith, secy., and treas.; Wm. F. Roberts, Jr., mgr., Cap. stk. \$5,000,000. Ore, May, O'Bannon, New Discovery, etc., silver, lead and antimony. Shafts and tunnels; refractory; water and electricity; furnace.
Bear Montgomery Ry., Hot Springs 390.	New England Mining Co., Portland, Maine, 30 Exchange st., E. O. Clark, pres.; J. M. Russell, secy.; S. W. Roberts, treas. and mgr., Cap. stk. \$500,000. Gold, Tunnel and shaft; refractory; steam.
Benton Saline Ry., 714.	S. H. Whitehouse, Rabbit, silver and nickel. Shaft; free milling; steam.
Calico Rock Izard Jackson Ldg., 8090, 714.	Gertrude Gold Placer Mining Co., Chicago, Ill., Room 4, 194 Clark st., J. W. Edwards, pres.; W. A. Verblow, secy.; A. A. Webber, treas.; J. J. Collins, mgr., Cap. stk. \$1,000,000. The Gertrude, gold and lead. Tunnel; hand.
Delaney Madison Ry., 720.	Billon City Mining Co., Fayetteville, Ark., L. S. Martin, pres.; D. C. Ambrose, secy.; J. L. Dickson, treas.; Martin & Wade, mgrs., Cap. stk. \$250,000. Gold and silver. Tunnel, 150 tons; free; hand. L. S. Martin, supt.
Elmore Montgomery (P. O. Silver City) Ry. Hot Springs 310.	Elmore Mining, Milling & Real Estate Co., Aurora, Ill., S. B. Sherer, pres. and mgr.; I. B. Tripp, secy., Cap. stk. \$1,000,000. Elmore, silver and lead. Shaft; refractory; steam.
Little Rock Pulaski Ry., 714.	Little Rock Mining & Smelting Co., corner Second and Spring sts., Dixon C. Williams, pres.; B. H. Gedge, secy. and treas.; R. K. Pitkin, mgr. and supt., Cap. stk. \$500,000. Silver, lead, copper and zinc. Shaft (developing), free; steam.
Silver City Montgomery Ry., Hot Springs 310.	Bull of the Woods Mining Co., J. A. Hughlett, pres.; J. J. Hays, secy.; J. F. Robinson, treas.; W. C. King, mgr., Bull of the Woods, silver, lead and copper. Open pit and shaft, 10 tons; refractory; hand, W. C. King, supt.
" "	Cosmos Mining & Smelting Co., Memphis, Tenn., Wm. Strehl, pres.; Joseph Buerger, secy.; Gus Limberg, treas.; Max Roller, mgr., Cap. stk. \$500,000. Cosmos, gold and silver. Free and refractory.
" "	Eureka Mining Co., St. Louis, Mo., 22 N. Main st., W. H. Swift, pres.; Walter Slawson, secy. and treas.; Charles Catter, mgr., Cap. stk. \$3,000,000. Bully, Sheridan and Kentucky, silver and lead. Shaft; free and refractory; hand. Peter Heenan, supt.
" "	Mrs. Lulu Gill, Cap. \$2,000. Silver, lead and copper. Shafts; refractory; hand. Dr. J. C. Bates, supt.
" "	King & Fisher, W. C. King, mgr., Eureka, silver and lead. Slope; smelting; horse.
" "	Minnesota Mining Co., Minnesota, silver and lead. Shaft and tunnel; refractory; steam.
" "	Pease & Hughlett, Cap. \$1,200. Silver Hue, silver, lead and copper. Shaft and open pits; refractory; hand.
" "	Waterloo Mining Co., P. W. Williamson, treas. and mgr., Waterloo and Lady Franklin, silver. Shaft; refractory; steam. P. W. Williamson, supt.
" "	Wheeler & Ish, Cap. \$15,000. Minnesota and Elmore, silver. Tunnel; free milling; steam. F. M. Ish, supt.

LEAD AND ZINC

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY	
El Dorado Dist Marion (Not a P. O.)	Chicago Zinc Co., Chicago, Ill., 1620 Chamber of Commerce Bldg., Perry A. Hull, pres.; Edward J. Judd, secy. and treas., Cap. stk. \$3,000. Esmeralda, lead and zinc. Tunnel and shaft (developing).
Elphinstone Marion Ry., Batesville 714.	Ozark Lead & Zinc Co., St. Louis, Mo., 316 S. Eighth st., G. A. Wiley, pres.; W. A. Robinson, secy.; Fred C. Ester, treas., Cap. stk. \$100,000. Queen Lily, Constock, Center Point and others, lead and zinc. Tunnel and open pit.
Powell Marion Ry., McRae's Ldg., 23.	Linton, Black & Co., L. N. Linton, pres.; J. W. Black, secy.; J. R. Potts, treas.; James P. Brady, mgr., Cap. stk. \$25,000. Governor, Eagle and American, lead and zinc. Shaft, tunnel, 500 tons; refractory; hand. James P. Brady, supt.
Toney Marion Ry., Batesville 714.	The Phoenix Zinc Mining & Smelting Co., East St. Louis, Ill., James Menown, pres.; F. B. Rinder, secy. and treas., Cap. stk. \$1,000,000. The Phoenix, zinc. Shaft.
" "	The Southern Zinc Mining & Smelting Co., East St. Louis, Ill., Estel McHenry, pres.; F. B. Rinder, secy. and treas., Cap. stk. \$1,000,000. The Southern, zinc. Shaft and tunnel.
Yellville Marion Ry., 8090.	Morning Star Mining Co., W. Q. Scawel, pres. and treas.; G. W. Chase, secy. and mgr., Cap. stk. \$500,000. Morning Star, zinc. Drifts and tunnels, 500 tons; hand.
" "	New York Zinc & Lead Co., New York City, 521 Broadway., Samuel Weil, pres.; Moses S. Lorett, secy.; M. Stern, treas.; S. H. Emanuel, mgr., Cap. stk. \$1,000,000. Bear Hill, Jay Gould and Lone Pilgrim, lead and zinc. Shafts and tunnels, 250 tons; horse. W. Q. Scawel, supt.

MANGANESE

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY	
Abbot Independence (P. O. Batesville) Ry., 714.	W. S. Abbot, Batesville, Ark., Cap. \$500,000. Abbot's Manganese Mines. Shafts, drifts and tunnels, 5,000 tons; steam, crusher, washer. W. S. Abbot, supt.

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERILS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Batesville, Independence Ry. 714.			Jesse M. Bartlett.	Open cut, 4,500 tons; hand and horse; kiln, 300 tons.
"	"	"	Frank Joblin.	Cap. \$5,000. Batesville Quarry. Open pit; hand.
Benton.	Saline		Arkansas Steatite Manufacturing Co., Little Rock, Ark.	Cap. stk. \$500,000. The Wallis, soapstone, steatite, serpentine and slate. Open, tunnels; steam, kilns, 50 tons.
Cabin Creek Ry., Little 398, 714.	Rock	397.		
Cabin Creek (P. O. Lamar) Ry. 400.	Johnson		Arkansas Stone Co., Little Rock, Ark., 223 W. Markham st.	H. Ridd, pres.; P. C. Irving, secy., treas. and mgr. Cap. stk. \$8,000. Cabin Creek. Open pit, 2,538 tons, hand. Wm. Burse, supt.
Hackett, Ry. 729.	Sebastian		A. J. Scott (local).	Sand Ridge, stone. Open pit, hand.
Hot Springs Ry. 319.	Garland		The Pike Mfg. Co., Pike Station, N. H.	E. B. Pike, pres. and mgr.; F. M. Tucker, secy. and treas. Cap. stk. \$70,000. Pike, novaculite stone.
"	"	"	James A. Smith, 805 Central av.	Cap. \$1,000. Open pit, 10 tons, hand.
"	"	"	J. J. Sutton, 16 N. Bauden st.	Sutton's, 10. Slope and tunnels, 300 tons.
"	"	"	A. Whittington, 19 Park av.	Cap. \$10,000. Oil stones. Open pit, 100 tons.
Little Rock Ry. 714.	Fulaski		Fred Hanger.	Cap. \$20,000. Open pit, 15,000 tons, steam.
"	"	"	Little Rock Granite Co., 208 W. Markham st.	Zeb Ward, pres.; Zeb Ward jr., secy., treas. and mgr. Cap. stk. \$100,000. Granite. Open pit, 3,000 tons. Steam, mill. B. C. Miller, supt.
Lone Rock Ry. Batesville 8290, 318.	Baxter		Lone Rock Marble & Mineral Co., Chicago, Ill., Room 4, 104 Clark st.	Cummings Cherry, pres.; W. A. Webber, secy.; Cummings Cherry jr., treas. Cap. stk. \$100,000. Lone Rock, red marble. Open pit, hand.
Russellville, Ry. 409.	Pope		Ernest B. Kramer (local).	Open; hand.

SEE ALSO SUPPLEMENTARY LIST

LEGISLATIVE ASSEMBLY,
BRITISH COLUMBIA

CALIFORNIA

ASBESTOS

LOCATION OF MINE,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.
TOWN AND COUNTY.

San Diego San Diego
Ry. 532, 632.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED,
MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

John D. Hoff Asbestos Co., 923 4th St. John D. Hoff, pres., and mgr.; N. J. King, secy. Cap. stk. \$100,000.
Open pit, steam; mill, 1,500 tons.

ASPHALTUM

LOCATION OF MINE,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.
TOWN AND COUNTY.

Edna San Luis Obispo
Ry. Steele 531.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED,
MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Bitumen Consolidated Mining Co., San Francisco, Cal., 240 Montgomery st. A. Walrath, pres.; M. P. Dond, secy.; G. M. Perine, treas.; J. A. Fairchild, v. pres., and mgr. Cap. stk. \$300,000. San Luis Obispo Bituminous Rock Co.'s asphaltum. Open pit, 25,000 tons; hand. James Cormack, supt.

" " "

San Luis Obispo Bituminous Rock Co., San Francisco, Cal., 240 Montgomery st. A. C. Bossert, pres.; J. A. Fairchild, mgr. Cap. stk. \$1,000,000. Bituminous rock, asphaltum. Open pit, 30,000 tons; hand. James Cormack, supt.

La Patera Santa Barbara
(P. O. Santa Barbara)
Ry. 622.

California Petroleum & Asphalt Co., San Francisco, Cal., 308 Market st. W. N. Cowles, pres.; A. C. Ferry, secy.; Crocker Woodworth National Bank, treas.; W. T. Barton, mgr. Cap. stk. \$500,000. La Patera. Shaft, 20,000 tons; steam and hydraulic; mill. W. N. Stoner, supt.

Las Conchas, La. Barbara
(P. O. Santa Barbara)
Ry. Carpinteria 622.

California Petroleum & Asphalt Co., San Francisco, Cal., 308 Market st. W. N. Cowles, pres.; A. C. Ferry, secy.; Crocker Woodworth National Bank, treas.; W. T. Barton, mgr. Cap. stk. \$500,000. Las Conchas. Open, 20,000 tons; steam and hydraulic; mill. J. L. Stoner, supt.

Los Angeles Los Angeles
Ry. 26, 622.

American Oil Co., Phillips Block, Room 4. W. E. De Groot, pres.; G. B. Griffin, secy.; University Bank, treas.; B. A. C. Stephens, mgr. Cap. stk. \$1,000,000. Roberts. Steam, horse and hand (developing). A. M. Jones, supt.

" " "

Mrs. Ida Hancock, La Brea. Open pit, 1,000 tons; hand.

Santa Cruz Santa Cruz
Ry. 622.

Bitumen Consolidated Mining Co., San Francisco, Cal., 240 Montgomery st. A. Walrath, pres.; M. P. Dond, secy.; G. M. Perine, treas.; J. A. Fairchild, v. pres., and mgr. Cap. stk. \$300,000. Asphaltum. Open pit, 25,000 tons; hand. Majors Bros., supts.

" " "

Santa Cruz Rock Pavement Co., San Francisco, Cal., 202 Montgomery st., Room 8. A. Walrath, pres.; M. P. Dond, secy.; Pacific Bank, treas.; Geo. M. Perine, mgr. Cap. stk. \$150,000. Walrath. Open pit, 12,000 tons; horse and hand.

Santa Maria Sa. Barbara
Ry. 531, 552.

Santa Maria Asphalt Co., S. Kaiser, pres.; J. Kaiser, secy.; L. M. Kaiser, treas.; M. Maryanski, mgr. Cap. stk. \$250,000. Open pit and shafts, horse.

Ventura Ventura
Ry. 622.

Ventura Asphalt Co., San Francisco, Cal., 239 Sansome st., Room 59. Gen. T. B. Bunting, pres. and mgr.; Frank A. Brooks, secy. and treas. Cap. stk. \$1,000,000. Ventura. Shaft and tunnels, 2,000 tons.

BORAX

LOCATION OF MINE,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.
TOWN AND COUNTY.

Del Norte San Bernardino
Ry. 26, 632.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED,
AND NAME OF MINE SUPERINTENDENT.

Pacific Coast Borax Co., San Francisco, Cal., 230 Montgomery st. F. M. Smith, pres.; A. H. Clough, secy. Cap. stk. \$1,000,000. Calico Borate. Shafts and tunnels, steam and horse. J. W. S. Perry, supt.

COAL BITUMINOUS

LOCATION OF MINE,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.
TOWN AND COUNTY.

Carbondale Amador
(P. O. Tono) Ry. Bon-
kets 622.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED,
COAL BREAKERS, WASHERS, COAL OVERS, AND NAME OF MINE SUPERINTENDENT.

Iron Coal & Iron Co., San Francisco, Cal., Fourth and Townsend sts. S. F. Gage, pres.; A. J. Treat, secy.; Pacific Improvement Co., treas. Cap. stk. \$1,000,000. Mine A. Slope, 25,000 tons; steam. Frank Frates, supt.

Carlinville Monterey
(P. O. Pacific Grove)
Ry. Carmel Bay 522.

Carmels Land & Coal Co., San Francisco, Cal. J. S. Emery, pres.; Wm. T. Baggott, secy.; Abner Dobie, treas.; Abner Bassett, mgr. Cap. stk. \$600,000. Carmels. Shaft, 1,000 tons; steam. Abner Bassett, supt.

Cordoba Fresno
Ry. 622.

California Coal Co., F. Myers, pres. and treas.; Thos. R. Muir, secy. and mgr. Tunnel, 1,000 tons; hand. Root. Ballantine, supt.

" " "

San Joaquin Valley Coal Mining Co., Fresno, Cal., 944 1st. J. F. Rowhns, pres.; Edward Kountze, secy. and mgr.; Bank Central Cal., treas. Cap. stk. \$600,000. San Joaquin. Slope and tunnels, steam; W. L. Prosser, supt.

Prairie Valley Monterey
Ry. Alameda Sta. 622.

John Clayton.

San Diego San Diego
Ry. Del Mar Sta. 126.

City Lands Coal & Oil Co., 549 E. St. M. A. Ferrer, pres.; F. H. Dixon, secy.; Nevada Bank of San Francisco, treas.; Wm. H. Carlson, mgr. Cap. stk. \$100,000. City Lands. Shaft. Wm. H. Carlson, supt.

COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, LUBRICANTS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Idone Ry. 622.	Amador	Newton Copper Co., San Francisco, Cal., 320 Montgomery st., Room 4. Horace D. Randlett, pres. and mgt., W. R. Morton, secy., Bank of California, treas. Cap. stk. \$200,000. Newton, sulphuret. Shaft, steam, hurry.		
Spenceville Ry. Wheatland 622.	Nevada	Woeckler & Pletsch, Cap. \$25,000. Spenceville and others. Open pit, steam and water.		

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMPS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Arden Ry. 622.	Los Angeles	E. Beckner, W. W. Hollister, C. W. Cook and James Kelley, Santa Barbara, Cal. Padre, gold. Shaft, free, steam, 2 stamps. Thomas Kelley, supt.		
"	"	E. B. Mollar, Los Angeles, Cal., 108 Broadway. Red Rover, gold. Shafts and tunnels, 1,000 tons, free, steam, 10 stamps. Ed. Brough, supt.		
"	"	Mount Gleason Mining & Milling Co., Los Angeles, Cal., Station 26. A. F. Mackay, pres.; J. A. Jones, secy., and mgt., Farmers & Merchants' Bank, treas., Cap. stk. \$50,000. Mount Gleason, gold. Tunnels, free and refractory, steam, 5 stamps. J. A. Jones, supt.		
Altaville (P. O. Angel's Camp) Ry. Milton 622.	Calaveras	Altaville Quartz Mining & Milling Co., R. R. Prince, mgt., Altaville, gold. Shaft, free, steam and water, 8 stamps.		
"	"	Eclipse Mining Co., San Francisco, Cal., 402 Montgomery st., David Saltfield, pres.; Louis Bended, treas.; Win. Schmaedecke, mgt., Cap. stk. \$1,000,000. Evening Star, gold. Shaft and tunnel, free, steam and water. James J. Schmaedecke, supt.		
Amador City Ry. Idone 622 (12 miles).	Amador	Bunker Hill Gold Mining Co., Philadelphia, Pa. Bunker Hill, gold. Shaft, 400,000 tons, free, water and steam, 40 stamps. John Myers, supt.		
"	"	Gold Mountain Mining Co., San Francisco, Cal., 21 Grant av. Frank M. Pixley, pres.; J. F. D. Curtis, secy., Bank of California, treas. Cap. stk. \$200,000. Gold Mountain, gold. Tunnels, refractory, water, 20 stamps. W. B. Lathol, supt.		
"	"	Grover Mining Co., San Francisco, Cal., 14 and 15 Fremont st. J. S. Emery, pres.; R. McF. Doble, secy., Angel California Bank, limited, treas., Jonas C. Hall, mgt., Cap. stk. \$100,000. Grover, gold. Shaft, 22,000 tons, free, water, steam and electricity, 20 stamps. A. R. Call, supt.		
"	"	N. Hamberger, Gold, Shaft, 10 tons, horse.		
"	"	Keystone Consolidated Mining Co., San Francisco, Cal., 110 Pine st. M. J. McDonald, pres. and mgt.; J. H. Isham, secy., Pacific Bank, treas. Keystone, gold. Shafts, free, steam and water, 40 stamps. J. I. Hale, supt.		
"	"	South Spring Hill Gold Mining Co., Fitchburg, Mass. George T. Morse, pres.; Nathan Hayward, secy., T. H. Goodnow, secy., Cap. stk. \$1,000,000. South Spring Hill and Latham, gold. Shaft, 20,000 tons, free, water and steam, 40 stamps. J. R. Fiegleman, supt.		
Angel's Camp, Calaveras Ry. Milton 622, 22 miles		Angels Quartz Mining Co., San Francisco, Cal., 12 Nevada Block. J. A. Coleman, pres.; J. F. Proston, secy., T. J. J. Schuier, treas. C. H. Fox, supt. and mgt., Cap. stk. \$200,000. Angels, gold. Shafts and tunnels, free, water, development.		
"	120 miles	Gold Hill Mining Co., Chicago, Ill., 67 Cadmus Bldg. S. A. Ryland, pres. and mgt.; W. G. Stephens, secy., Sam'l Brown Jr., treas., Cap. stk. \$5,000. Gold Hill, gold. Shaft, tunnel, 4,000 tons, free, water, 10 stamps. S. A. Ryland, supt.		
"	"	Remondet, Porter & Gates Mining Co., Watertown, N. Y. T. M. Gates, pres.; M. T. Cleveland, secy., W. H. Porter, treas., Carson Creek, gold and silver. Shaft, 15,000 tons, free and refractory, water, 40 stamps. T. W. Roberts, supt.		
"	22 miles	F. K. Stearns, Sonoma, Cal. Vanderbilt, Rothschild, Bright Star and Chaparral Hill, gold quartz. Tun- nels, developing, free and refractory, water, 8 stamps.		
"	120 miles	Utes Mining Co., San Francisco, Cal., 224 California st. C. D. Lane, mgt. and supt. Utes, gold. Shaft, 95,000 tons, free, water, 40 stamps.		
Yuba Ry. 622	Placer	Coram, Ough & Locant, J. M. Ough, mgt. Mountain View, gold. Tunnel, refractory, water. G. B. Corwin, supt.		
"	"	Mammoth Bar Gold Mining Co., O. W. Labeck, pres.; R. F. Gann, secy.; Walter S. Davis, treas. and mgt., Cap. stk. \$100,000. Mammoth Bar, gold. Shaft, water, Walter S. Davis, supt.		
"	"	Mina Rica Gold Mining Co., New York City, corner Fulton and Nassau sts. J. G. Frode, pres. and mgt., N. P. Hale, secy., A. A. Lewis, treas., Cap. stk. \$200,000. Mina Rica, gold. Shaft, free, water, 40 stamps. J. W. McLaughlin, supt.		
"	"	Charles F. Reed & E. L. Hubbard, Gold Blossom, gold. Shaft, refractory, water, 40 stamps. C. F. Reed, supt.		
Bangor Ry. Humboldt 622	Butte	Bishop Mining Co., W. W. Will, pres.; John G. Will, secy.; Bird Will, treas. and mgt., Cap. stk. \$50,000. Bishop, gold, gravel. Shaft, 15,000 tons, steam. Bird Will, supt.		
"	"	Blue Lead Gravel Mining Co., Colby, Cal. R. F. Taylor, pres.; F. H. Mack, secy.; W. M. Brown, treas., Samuel Grove, mgt., Blue Lead, gold. Shaft, steam, Samuel Grove, supt.		
"	"	Blue & Gold Mining Co., Cap. \$50,000. Blue and Gold, gold. Shafts, free, steam, 20 stamps. Hay & Clark, supt.		
"	"	Catskill Gravel Mining Co., Marysville, Cal. A. W. White, pres.; J. F. Meek, secy.; Wm. Klein, treas., Cap. stk. \$100,000. Catskill, gold. Shaft, steam, refractory, J. F. Meek, supt.		
Banner Ry. Fosters 622	San Diego	Banner Mining Co., Pomona, Cal. George E. Horton, pres.; Archie Thompson, secy.; National Bank, treas. Cap. stk. \$200,000. A. E. Smith, mgt. and others, 2 gold. Shaft and tunnel, free, steam, 40 stamps. D. C. Lane, supt.		

GOLD AND SILVER (CONTINUED).

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Bahner	San Diego	Irving L. Carl & A. E. Cowels, Cap. \$25,000, North Hubbard, gold, Tunnel, 800 tons; free; steam; 5 stamps. Irving L. Carl, supt.		
"	"	Ruby Mining & Milling Co., San Francisco, Cal., 406 Market st., L. E. Lee, secy., treas. and mgr., Cap. stk. \$50,000, Wilcox and Ruby, gold, Tunnel, 2,200 tons; free; steam; 5 stamps; L. E. Lee, supt.		
"	"	Schappardell Mining Co., W. W. Boswell, mgr. and supt., Schappardell, gold, Shaft, tunnels, etc.; free; hand.		
Bath	Placer	Breece & Wheeler, San Francisco, Cal., 1400 Post st., Judson Wheeler, secy. and treas., Cap. \$900,000, Gold, Tunnel, 12,000 tons; placer, steam and hydraulic, 10 stamps; W. H. Grenell, supt.		
Bear Valley	Mariposa	Bart & Bach, Cap. \$15,000, Green Stone, gold, Shaft; free; steam; 5 stamps.		
"	"	" (40 miles),		
"	"	Cathey Bros., Jubilee and Daisy, gold, Shaft and tunnel; free; water; arrastre.		
"	"	Mariposa Consolidated Mining & Milling Co., San Francisco, Cal., 224 California st., Col. Haward, pres.; C. T. Budge, secy.; Bart M. Fadden, mgr., Mariposa, Grant, gold, Shaft; free and refractory; water; 5 stamps; A. C. Hamilton, supt.		
Benton	Mono	Phoenix Mining & Milling Co., San Francisco, Cal., Nevada Block, Room 69, John F. Millner, pres.; A. K. Durbrow, secy.; Bank of California, treas., Arch. Farrington, mgr., Cap. stk. \$1,000,000, Phoenix, gold, Shaft, tunnel and slope; free; steam; 10 stamps; A. Farrington, supt.		
Bishop	Inyo	O. H. Hill & Co., Geo. F. Willis, mgr. and supt., Georgian, gold, Tunnel, 20 tons; free; steam; 5 stamps.		
"	"	" (Poleta 108),		
Black Bear	Siskiyou	Black Bear Quartz Mining Co., San Francisco, Cal., 290 California st., John Daggett, pres. and mgr.; J. F. Nesmith, secy.; Bank of California, treas., Cap. stk. \$500,000, Black Bear, gold, Tunnel; free; water; 32 stamps; John Daggett, supt.		
"	"	" (902),		
Bodie	Mono	Standard Consolidated Mining Co., San Francisco, Cal., 319 Pine st., Thomas H. Leggett, pres. and mgr.; L. W. Pew, secy. and treas., Cap. stk. \$10,000,000, Standard Consolidated, gold and silver, Shaft and tunnel, 16,000 tons; free; steam; 20 stamps; Thomas H. Leggett, supt.		
"	"	" (Hawthorne, Nev., 108),		
Brown's Valley	Yuba	Jefferson Gold Quartz Mining Co., Marysville, Cal., P. O. Box 397, F. W. Johnson, pres.; G. W. Barny, secy., Rudeant Bank, treas.; A. J. Schultz, mgr., Cap. stk. \$100,000, Jefferson, gold, Shaft, 25,000 tons; free; steam; 10 stamps; A. J. Schultz, supt.		
"	"	" (Marysville 692),		
"	"	Johnson, Swezy & Brown, Marysville, Cal., Dexter, gold, Shaft, free; hand.		
Brownsville	Yuba	Reuben Clark, Cap. \$50,000, R. C., gold, Shaft and tunnel, 5,000 tons; free and refractory; water; 10 stamps; J. C. Campbell, supt.		
"	"	" (Hobart 692),		
"	"	Johnson Mining Co., R. M. Johnson, pres. and secy., H. A. Coxwell, treas., R. W. Emerson, mgr., Cap. \$2,000, Johnson, gold and silver, Shaft and tunnel, 2,000 tons; free and refractory; water; 5 stamps; R. M. Johnson, supt.		
"	"	"		
"	"	T. H. Steel, Cap. \$50,000, Gold, Placer; hydraulic.		
Butcher Ranch	Placer	Gray Eagle Mining Co., San Francisco, Cal., 303 California st., H. W. Gray, pres.; A. W. Barrows, secy.; Wells-Fargo Bank, treas., T. G. Durning, mgr., Cap. stk. \$100,000, Gray Eagle, gold, Placer, tunnel, shaft and slope; steam; 10 stamps; T. G. Durning, supt.		
"	"	" (Auburn 692),		
"	"	Spring Garden Mining Co., San Francisco, Cal., 757 Ellis st., J. A. Wilder, pres.; A. C. Wilder, secy.; Wells-Fargo & Co.'s Bank, treas., Cap. stk. \$1,000,000, Spring Garden, gold, Slope and tunnel; placer; steam and water; Geo. E. Stone, supt.		
Butte Valley	Plumas	R. Benrick, A. G. Rout, pres.; Hugh Kelley, secy., C. H. Lee, treas.; R. Benrick, mgr., Cap. stk. \$5,000, Nip and Turk, gold, Tunnel, 3,000 tons; free; water; 10 stamps; R. A. Gaston, supt.		
"	"	" (Chico 692),		
"	"	Butte Valley Mining Co., Cap. stk. \$3,000, Butte Valley, gold, Tunnel and placer; water; C. H. Lee, supt.		
"	"	"		
"	"	A. N. Cameron, Cap. \$7,000, River View, gold, Tunnel; placer.		
"	"	"		
"	"	James Firmstone, Daisy, gold, Placer, 3,000 tons; hand.		
"	"	"		
"	"	N. Meadows, Cap. \$3,000, Allen Cove, gold, Tunnel.		
"	"	"		
"	"	A. G. Rupe, Cincinnati Hill, gold, Placer.		
"	"	"		
"	"	Theodor Wilmer, Jawbone Flat, Cal., Cap. \$3,000, Lulu, gold, Placer, tunnel, hand.		
Calico	San Bernardino	De Sota Mining Co., De Sota, silver, Shafts and tunnels, free; hand.		
"	"	" (Bagger 26),		
"	"	Thomas Gray, Lime Mine, silver, Tunnel, shafts and slopes, free, hand, 10 stamps; J. L. Porter, supt.		
"	"	"		
"	"	Fred Heber, Hyena, silver, Tunnel; free; hand.		
"	"	"		
"	"	Silver King Mining Co., Ltd., London, Eng., 3 Great Winchester st., W. Hosking Ashlin, secy., Oriental Group and 3 others, silver, Shafts, tunnels, slopes and drifts, 35,000 tons; free; steam; 30 stamps; Wm. S. Edwards, supt.		
"	"	"		
"	"	Tracy N. Stebbins, Silver, Shaft and tunnels, 2,500 tons; free; steam, 5 stamps.		
"	"	"		
"	"	Waterloo Mining Co., Milwaukee, Wis., C. M. Sanger, pres.; W. H. Metcalf, secy., C. T. Bradley, treas.; E. A. Sanger, mgr., Waterloo, Silver King and others, silver, Shafts and tunnels, 75,000 tons; free; steam, 75 stamps; Jos. Kerbaugh, supt.		
Calistoga	Napa	Knappton Consolidated Mining Co., J. D. C. Knapp, pres.; W. D. Smith, secy., P. M. Scheidt, treas., Cap. stk. \$5,000,000, Mt. View, Cleveland, Kelso, Silver Vein and Smith, gold and silver, Tunnel and slopes, 10,000 tons; free.		
"	"	" (902),		
"	"	Fallside Mining Co., R. F. Grigsby, pres., treas. and mgr., R. A. Grigsby, secy., Cap. stk. \$500,000, Fallside, gold and silver, Shafts, tunnels, 3,000 tons; refractory, steam; 15 stamps; R. F. Grigsby, supt.		
Calumet	Shasta	Calumet Gold Mining Co., San Francisco, Cal., 58 Chronicle Bldg., Wilmet H. Garlick, pres. and treas.; A. R. Paul, jr., secy.; Alhambra B. Paul, mgr., Cap. stk. \$500,000, Calumet and Poorman, gold, Tunnels and drifts, refractory, water, 24 stamps; Alhambra B. Paul, supt.		
"	"	" (Middle Creek),		
"	"	" (Calumet Spout 692),		

GOLD AND SILVER (CONTINUED).

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	COUNTY		
Campo Seco	Calaveras Ry. Valley Springs 26.	Venus quartz Mining Co., James Cory, secy., A. R. Sumner, mgt., Venus, gold, Tunnel, 400 tons, refractory, hand, 10 stamps, C. Puger, supt.	
Cardeno	Calaveras (P. O., Butte Valley) Ry. 692.	William Wilson, Gold Tunnel, hand.	
Carrville	Trinity Ry. Redding 692.	J. E. Carr, Cap. \$10,000, Nash, gold, Placer; hydraulic.	
"	"	Strode & Bander, Cap. \$10,000, Oro Grande, gold, Tunnel, 5,000 tons, free, water, 5 stamps.	
Carsons	Calaveras (P. O., Angels Camp) Ry. Milton 692.	Joseph Canepa, Canepa, gold, Shaft, free and refractory, hand.	
Cerro Gordo	Inyo Ry. Keeler 108.	H. B. Boland, Union Jack and Protection, silver and lead, Tunnel, hand.	
"	"	Thomas Boland, Cap. \$5,000, Union and Enterprise, silver and lead, Shaft, 800 tons, refractory, steam.	
"	"	J. Donerley & C., Benton, Cedar, silver, Slope, free, hand.	
"	"	John Dunphy, Morning Star and Phoenix, gold, silver and lead, Shaft, 4,000 tons, refractory, horse and hand.	
"	"	W. L. Hopkins & M. Carey, Faith and Hope, silver and lead, Shaft, refractory.	
"	"	Union Co., Carson City, Nev., H. M. Yerrington, pres., G. F. Ford, secy., Wells, Large & Co.'s Bank, Treas., Cap. \$1,000,000, Union, silver and lead, Shaft and tunnel, 200 tons, refractory.	
Cherokee	Butte Ry. Chat 91.	T. F. Emmons, Greenville, Cal., Albion, gold, Tunnel, 1,500 tons, free, water, 10 stamps.	
"	"	F. Sutton & Wm. Simmons, Sonora, Cal., Cap. \$15,000, Carlotta, gold and silver, Shaft, 500 tons, free, horse, Wm. Simmons, supt.	
Chinese Camp	Foothill Ry. 692.	Hard Rock Mine, John Long, mgt., Gold, Shaft, free.	
Cleveland	Trinity (P. O., Oro Ry., Anderson 692.	Cleveland Consolidated Mining Co., Red Bluff, Cal., R. G. Hart, pres., Geo. N. P. Chapman, secy., Tehama Co. Bank, Treas., Cap. \$15,000, Red Bluff, copper and Cleveland, gold and silver, Tunnels, 4,500 tons, free and refractory, steam, 10 stamps, R. G. Hart, supt. and mgt.	
Clinton	Mono Ry. Carson City, Nev., 781.	Interstate Consolidated Mining Co., Bridgeport, Cal., A. L. Bryant, pres., J. D. Murphy, secy., J. A. Brown, Treas., A. P. Sayre, mgt., Cap. \$10,000, Interstate, gold and silver, Shaft and tunnels, 50 tons, refractory, hand, A. P. Sayre, supt.	
"	"	Monter Consolidated Mining & Milling Co., Bridgeport, Cal., A. F. Bryant, pres., W. O. Parker, secy., Henry Williams, Treas., T. C. Sharpe, mgt., Cap. \$15,000, Monter, gold, Shaft and tunnel, free, horse, T. C. Sharpe, supt.	
"	"	Rattler Mining Co., Rattler, gold, Tunnels.	
"	"	John H. Sheehan, Summers and Knicker, gold and silver, Tunnels, free, steam, 5 stamps.	
Course Gold Catch	Fresno Ry. Raymond 692.	McKenzie & Rule, Last Chance, gold, Free, steam, 10 stamps.	
"	"	Waterloo Gold Mining Co., San Francisco, Cal., F. S. St. M. Lindholm, pres., J. M. Gray, Barlow, secy., Treas. and mgt., Cap. \$10,000, Paymaster and Alameda, gold, Tunnels and shafts, 4,000 tons, free, steam, 10 stamps, J. D. Baum, supt.	
Coles	Siskiyou Ry. 692 (10 miles).	I. T. Bartlett, Ranger, gold, Shaft, tunnel and open pit, 70 tons, free.	
"	"	Patterson Bros. & Payne, Wm. Patterson, mgt., Patterson, gold, Water.	
"	"	G. D. Willey, Hornbrook, Cal., G. D. Willey, pres. and mgt., A. P. Hill, secy., C. F. Baumgardner, Treas., Cap. \$12,000, Louisiana, gold, Free, water and hydraulic, Wm. Casey, supt.	
Colfax	Placer Ry. 692.	Henry McKinnis, New York City, d. Wall St., Esna, San Jose, Shaft, free, steam, 20 stamps, W. L. Peters, supt.	
Columbia	Foothill Ry. Okadale 36.	Coulin & Graham, Enterprise, gold, Shafts and tunnels, free, water, 4 stamps, Angus S. Graham, supt.	
"	"	Engelke & Co., J. D. Engelke, mgt., Experimental, gold, Shaft and tunnel, 1,500 tons, free, water, 10 stamps.	
"	"	Last Chance Mining Co., Last Chance, gold, Open pit, free and refractory, steam, 5 stamps, E. C. Tibbitts, supt.	
"	"	Noonday Mining Co., Okadale, Cal., J. W. Woodside, pres. and Treas., A. S. Dingley, secy., T. H. Warren, mgt., Cap. \$15,000, Noonday, gold, Shaft and slopes, 30 tons, free and refractory, steam, 3 stamps, T. H. Warren, supt.	
"	"	Louis Page & Co., Golden Era, gold, Shaft, 1,000 tons, free, water, 5 stamps, Louis Page, supt.	
"	"	Tibbitts & Green, Last Chance, gold, Shaft, free, steam, 5 stamps, E. C. Tibbitts, supt.	
"	"	Vine Spring Mining Co., C. B. Willey, pres., T. H. Tyler, secy., J. B. Barnett, Treas., F. L. McPherson, mgt., Cap. \$15,000, Vine Spring, gold, Shaft and tunnel, 1,000 tons, free, water, 10 stamps, F. L. McPherson, supt.	
Copley	Shasta Ry. 343.	Balaklala Mining Co., Redding, Cal., S. Wong, pres., A. C. Tals, mgt., Balaklala, gold and silver, Shaft and tunnel, free and refractory, A. C. Tals, supt.	
"	"	Polar Star Mining Co., Cap. \$1,000, Polar Star, gold, Tunnel, 1,000 tons, refractory, W. W. Nichols, supt.	
"	"	Henry Redding, Indian Queen, gold, Tunnel, 800 tons, free, water, 10 stamps, at Castro.	
"	"	Van de Veer & Ballard, Scotch Chief and Santa Clara, gold, Tunnel, 1,500 tons, free, water, 10 stamps.	

GOLD AND SILVER (CONTINUED).

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Copperopolis	Calaveras		Haggin & Hearst, San Francisco, Cal., 51 Nevada Block, Irwin C. Stump, secy. and treas.; August H. Schnabel, mgr. Therm. gold. Tunnel; steam; mill. August H. Schnabel, supt.	
Cottage Grove	Siskiyou		Thomas Dobbins & Fred Martin. Cap. \$2,000. Dolboms, gold. Placer; hydraulic.	
"	"		George Ten Eyck. Cap. \$15,000. Gold. Placer; hydraulic.	
"	"		H. Wm. Thomas. Gold. Placer.	
Coulterville	Mariposa		P. P. Mast, Springfield, Ohio. P. P. Mast, pres.; C. L. Mast, secy. and treas. and mgr. Cap. \$120,000. Bandorita, gold and silver. Tunnel; free; water. 10 stamps. C. L. Mast, supt.	
"	"		Tyco Mining Co. E. C. Jarvis, pres.; N. W. Crocker, secy. and treas.; Charles Sutherland, mgr. Tyro, gold. Shaft, 7,200 tons; free, refractory. steam, 10 stamps. Charles Sutherland, supt.	
"	"		Virginia Mining Co., Springfield, Ohio. J. W. Crowell, pres. and secy.; C. L. Mast, mgr. and supt. Cap. \$50,000. Virginia, gold, silver. Shaft, tunnel, slope; free; steam, 10 stamps.	
Crescent City	Del Norte		W. Engley & Wagner Co. A. W. Engley, pres.; C. M. Wagner, secy. and mgr.; H. Stowe, treas. Myrtle and Smith River, gold, silver and copper. Open, placer; water. C. M. Wagner, supt.	
Cuyamaca	San Diego		Estate of R. W. Waterman. Waldo S. Waterman, mgr. Stonewall, gold. Shaft, 25,000 tons; free; steam, 20 stamps. Waldo S. Waterman, supt.	
Daguerre	San Bernardino		S. P. Blade. Sampson, silver. Free and refractory.	
"	"		Clark Bros. Queen of the Desert, Mammoth Chert and Meteor, gold and silver. Free; steam. F. L. Clark, supt.	
"	"		William Hyten & H. T. Smith. Wanderer, gold. Free.	
"	"		Riggs & Campbell. Banner, Dandy and others, gold and silver. Shaft and tunnel; free, hand. Frank Riggs, supt.	
"	"		Riggs, McMahon & Riggs. New Year's Gift and others, gold, silver and lead. Tunnel; refractory; hand. Frank Riggs, supt.	
Damascus	Placer		Golden River Mining Co., Paris, France, 21 Place Vendôme. M. Desmoussis, mgr. Cap. \$18,450. Golden River, gold. Tunnel and slope, 30,000 tons; free, steam and horse. Chas. T. Hoffman, supt.	
"	"		Pioneer Mining Co., San Francisco, Cal., 230 Montgomery st. L. C. Bresse, secy. Pioneer, gold. Tunnel, 8,400 tons; free; water; 20 stamps. D. J. Sullivan, supt.	
Darwin	Inyo		J. A. MacKenzie. Lucky Jim and Christmas Gift, silver, lead. Shaft and tunnel; refractory; steam.	
"	"		Phoenix Mining Co., San Francisco, Cal., 314 California st. Silver and lead. Slope, 100 tons; refractory, horse. Max Schlem, supt.	
"	"		P. Reddy, San Francisco, Cal., 310 Pine st. Geo. H. Hardy, secy. Defiance and Independence, gold, silver and lead. Shaft and tunnel, 80 tons; refractory, steam. E. A. Reddy, supt.	
"	"		Chas. Richardson. Cap. \$1,000. Good Hope, gold, silver and lead. Shaft and tunnel, 50 tons; refractory, hand.	
Deadwood	Trinity		J. T. Brown. Gold. Placer; hydraulic and arrastre.	
"	Ry. Redding 622 1/2 m.		Brown Bear Mining Co. T. O. Hollingsworth, mgr. Brown Bear, gold and quartz. Tunnel, 6,000 tons; free, steam, 15 stamps. G. E. Sargeant, supt.	
"	"		Mrs. Mary Faxon. Vermont and Sir John, gold. Tunnel, 100 tons; free, steam, mill.	
"	"		Harkness Mining Co. Harkness, gold. Tunnel. J. H. Frissell, supt.	
"	"		James Kelly. Emmet, gold. Tunnel, free, water, arrastre.	
"	"		Lila Mining Co. Lila, gold. Tunnel, free, steam, 10 stamps. Theo. Gross, supt.	
"	"		D. O. Monthead, Forest Hill, Cal. Cap. \$3,000. Center, gold. Tunnel and slope; free, horse.	
"	"		Thorne Bros. Two Brothers, gold. Tunnel and shaft, free.	
Desert	San Diego		Charles Ellis. Independence, gold. Shaft and tunnel, free.	
"	Ry. Lakeside 49 1/2 m.		I. Noble & Sons. Laurela, gold. Tunnels and shafts, free, water, 2 stamps.	
"	"		Dann, Oneil. Gold. Shaft (developing), free, water.	
"	"		Gart L. Seybold. Cap. \$1,200. Cascade, gold. Shaft and open pit, 15 tons; free, hand and water. G. L. Seybold, supt.	
Diamond Spg.	El Dorado		R. F. Morrison. Cap. \$25,000. Mathews Creek, gold. Shaft and tunnel (developing), free, water, mill. R. F. Morrison, supt.	
Dillon	Siskiyou		Halvorson & Eard. Cap. \$5,000. Horse Shoe Bend, gold. Placer; hydraulic. A. Halvorson, supt.	
"	P. O. Cottage Grove			
"	Ry. Yreka 62.			
Dogtown	El Dorado		Wiley Sexton. King, gold. Placer; hydraulic.	
"	P. O. Grizzly Flat Ry.			
"	Placerville 62.			
Downsville	Sierra		Black Hawk Gravel Mining Co., San Francisco, Cal. 100 Washington st. James Brodie, pres. and mgr., Samuel D. Simmons, secy. and treas. Cap. \$15,000. Black Hawk, gold. Open, placer, water.	
"	"		Gold Bluff Mining Co., New York City, 14 College place. John H. Piper, pres., Putnam Conklin, secy., A. E. Williams, treas., Wm. Kraft, mgr. Cap. \$15,000. Gold Bluff, gold. Tunnel, 15,000 tons; free, water, 20 stamps. William Kraft, supt.	
"	"		Red Oak Mining Co., Carson City, Nev. Geo. T. Mills, pres. L. S. R. Noyes, secy. M. Cohn, treas., W. W. Mason, mgr. Cap. \$15,000,000. Red Oak, gold. Tunnel, placer, hand. W. W. Mason, supt.	

GOLD AND SILVER (CONTINUED).

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OR 100 TONS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Dundlap Ry., Fresno 25 miles.		Fresno	J. W. Collier, Cap. \$80,000. Homestake, gold. Placer.	
"	"	"	Moore & Davis. Oro Fino, gold. Shaft and tunnel, 100 tons; refractory, water, attraste. S. C. Moore, supt.	
El Dorado Ry., 192.	El Dorado	Church Gold Mining Co., San Francisco, Cal., 300 California st. Thos. R. Church, pres't. A. W. Barrows, sec'y. W. W. Montague, treas. Church, gold. Shaft and tunnel, 7,000 tons; free, water, 10 stamps. James Richards, supt.		
"	"	J. M. Vandergilt. Los Padres, gold. Shaft, free and refractory, water.		
El Foro Ry., McPherson 2.	Orange	Santiago Canyon Silver Mining Co., Los Angeles, Cal., 15 Bryson Boulevard, Block. R. S. Law, pres't. W. A. Vandergilt, sec'y, treas. and mgt. Cap. stk. \$200,000. Santiago Canyon, gold and silver. Shafts, tunnels and slopes, 1,000 tons; refractory, water and hand, crushers and concentrators. T. D. Hovey, supt.		
Flat Creek P. O. Copley Ry., 345.	Shasta	Morton & Moores Gold Mining Co., Copley, Cal. T. E. Mitchell, pres't. Luke Mitchell, sec'y. Omar Morton, treas. Golden Cat, gold. Shaft and tunnel, free water.		
Forbestown Ry., Oroville 62	Butte	Bazar, Hayward & Vail, San Francisco, Cal., 224 Alabama st. A. Hayward, pres't, sec'y and treas. Sutters, gold and silver. Shaft, free, water, 10 stamps. H. T. Vail, supt. and mgt.		
"	"	Belhuve Mining Co. Belhuve, gold. Shaft and tunnel, free steam, 8 stamps.		
"	"	Mrs. M. A. G. Blake. E. chive and Extension, gold. Shaft and tunnel, free steam, 8 stamps.		
"	"	Carlele & Boggs. Carlele, gold and silver. Open pit and tunnel, refractory, water. J. O. C. Boggs, supt.		
"	"	Edison Mines. Edison, gold and silver. Tunnel, free. L. R. Harrison, supt. and mgt.		
"	"	Col. A. Hayward, San Francisco, Cal., 24 California st. Snake party, gold and silver. Shaft, 150 tons; free steam, 10 stamps. A. W. Price, supt.		
"	"	Reynold & Roberts. Garden Ranch, gold. Placer, water. A. E. Roberts, supt. and mgt.		
"	"	W. W. Shaw, San Francisco, Cal., 105 California st. Goat Range, gold and silver. Shaft and tunnel, 1,500 tons; free and refractory, water, 10 stamps and concentrator. Harry P. Shaw, supt.		
Forest City Ry., Nevada 100-1000.	Sierra	Rail Mountain Extension Gold Mining Co., Downey, Cal. Robert Forbes, pres't. J. W. O'Connell, sec'y and treas. Cap. stk. \$500,000. Rail Mountain, gold. Tunnel. Wm. McKee, supt.		
Forest Hill, Ry., Colfax 97.	Placer	Homestake on old field Quartz Mining Co. Homestake, gold. Tunnel, free, water, 8 stamps. D. A. Russell, supt.		
"	"	Max Hober, Colfax, Calif. San Francisco, Cal., 100 California st. Robert L. Hober, sec'y and pres't. D. M. Kent, sec'y. Bank of California, treas. Cap. stk. \$500,000. Max Hober, gold, 10 stamps, free steam, 10 stamps and water, 10 stamps. Harold L. Power, supt.		
"	"	Chas. F. Reed. Drummond, gold. Shaft and tunnel, 1,000 tons; free steam, 10 stamps.		
Fort Jones, Ry., Yuba 60.	Siskiyou	Allen Bros. Co., Quartz Valley, Cal. Thos. Allen, pres't. H. S. Matthews, sec'y. A. E. Carlow, treas. Extended Allen, mgt. Cap. stk. \$50,000. Quartz Mountain, gold. Shaft and tunnel, 100 tons; free steam, 10 stamps. John P. Deo, supt.		
French Gulch, Ry., Redding 192.	Shasta	Wm. Brown. Silver, gold. Free and refractory, water and mgt.		
"	"	Gladstone Mining Co., Cleveland, Ohio, 201 Clark Ave. B. L. P. sec'y and pres't. J. C. Brier, sec'y and mgt. C. J. Clark, mgt. Cap. stk. \$120,000. Gladstone, gold. Tunnel, 1,000 tons; free steam, free water, 10 stamps. C. J. Clark, supt.		
Garden Valley, El Dorado Ry., Phoenixville 14 miles.	El Dorado	Idaho Id. Gold Mining Co., San Francisco, Cal., 200 Pine st. Wm. S. Channing, pres't. Geo. F. Sturge, sec'y. Anglo-California Bank, treas. T. W. Chapman, mgt. Cap. stk. \$100,000. Idaho Id. gold. Shaft and slope, 5,000 tons; free water, 10 stamps. F. W. Chapman, supt.		
"	"	Rosecrans Mining Co., San Francisco, Cal., 19 Merchants Bldg. H. S. Rosecrans, pres't. A. F. Bell, sec'y and treas. H. S. Norton, mgt. and supt. Cap. stk. \$50,000. Rosecrans, gold. Slope of alluvium, free steam, 10 stamps.		
Genesee Ry., Reno, Nev. 192.	Plumas	Genesee Valley Gold Mining Co., San Francisco, Cal., 154 Broadway. A. V. Jones, pres't. J. G. Jones, treas't. and mgt. Jacob Strathfield, sec'y. Cap. stk. \$100,000. Genesee, gold. Shaft, 100 tons; free steam, 10 stamps. Joseph G. Jones, supt.		
"	"	Goldman, F. W. & Y. mg. Augustus Goldman, mgt. Cap. stk. \$100,000. Genesee, gold. Shaft, 100 tons; free steam, 10 stamps. Augustus Goldman, supt.		
Glencoe Ry., Valley Springs 62 miles.	Calaveras	Ranier Gold Mining & Milling Co., San Francisco, Cal., 100 California st. F. H. Webster, pres't. sec'y and treas. A. J. Rhodes, mgt. Cap. stk. \$50,000. Ranier, gold. Shaft, 100 tons; free steam, 10 stamps. A. J. Rhodes, supt.		
"	"	Industrial Mining & Milling Co., San Francisco, Cal., 430 Montgomery st. D. R. McIntosh, pres't. and mgt. J. B. Carlton, sec'y. C. S. Jones, mgt. Cap. stk. \$50,000. Industrial, gold. Shaft, 100 tons; free steam, 10 stamps. D. R. McIntosh, supt.		
Gold Rock Camp, S. Diego Ry., Oajay 62.	Imperial	Frank C. Young & Thomas Johnson. Gold Rock, gold. Shaft and tunnel, 100 tons; free steam. Thos. Johnson, supt.		
Gorman's State Ventura Ry., Lancaster 192.	San Diego	Fraser Mining Co., Los Angeles, Cal., First National Bank Bldg. John D. Beland, pres't. Frank Gorman, sec'y. First National Bank, treas. Cap. stk. \$100,000. Fraser, gold. Shaft and tunnel, free and refractory, steam, mills. Geo. G. Gorman, supt.		
Graniteville Ry., Nevada City, 100 25 miles.	Nevada	Gaston Ridge Mill & Mining Co., San Francisco, Cal., 12 Sacramento st. L. M. Giffon, pres't. John L. Nugent, sec'y. F. McMurtry, treas. F. Foley, mgt. Cap. stk. \$100,000. Gaston Ridge, gold. Tunnel, 100 tons; free steam, 10 stamps. Patrick Foley, supt.		
"	"	John Hippert. Liberty, Pope and Hot Water, gold. Tunnel and shaft, 100 tons; free water, attraste, 2 stamps.		
"	"	Ozall Bros. Chattanooga, gold, 20 tons; free hand, mgt.		
"	"	T. Staples. Gaston Ridge, gold. Tunnel and shaft, free water and steam, 10 stamps.		

GOLD AND SILVER—(CONTINUED).

TOWN AND COUNTY	LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
Grass Valley Ry., 190.	Nevada	Allison Ranch Ford.	Martin Ford, prest. and mgr.; J. E. Carr, secy. Cap. stk. \$2,500,000. Allison, gold. Shaft; free. Martin Ford, supt.
"	"	Balfie Consolidated Mining Co.	E. Matson, prest.; D. D. Bowman, secy.; Citizens' Bank, treas.; Joseph Snyder, mgr. Cap. stk. \$900,000. Balfie, gold. Tunnel; free; water; mill. Joseph Snyder, supt.
"	"	Boston Mining Co.	Bennett Dunstan, prest.; M. McDonough, secy. and treas.; Thomas Opie, mgr. Cap. stk. \$90,000. Granite Hill, gold. Shaft and slope; free; water. Thomas Opie, supt.
"	"	California Mining Co.	Charles E. Urea, prest.; J. W. Thomas, secy.; Citizens' Bank, treas. Cap. stk. \$100,000. California, gold and silver. Shaft, 700 tons; free; steam; 5 stamps, mill. James Glasgow, supt.
"	"	William Campbell.	Norambuqua, gold. Shaft; free; steam and water.
"	"	Centennial Quartz Mining Co.	Samuel Granger, prest.; Jacob Weissbein, secy.; Weissbein Bros. & Co., treas.; A. W. Stoddart, mgr. Cap. stk. \$900,000. Centennial, gold. Shaft; free; steam. A. W. Stoddart, supt.
"	"	Central North Star Mining Co.	J. R. K. Nuttall, prest.; Jacob Weissbein, secy.; Weissbein Bros. & Co., treas. Cap. stk. \$1,000,000. Central North Star, gold. Shaft, steam. James Bennallack, supt.
"	"	John C. & Edward Coleman & Geo. D. McLean.	Lucky Quartz, gold. Slope; free.
"	"	Crown Point Consolidated Mining Co.	A. Gauthier, prest. and treas. and mgr.; J. J. Rodgers, secy. Crown Point, gold. Shaft, 10,000 tons; free; water; 10 stamps. A. Gauthier, supt.
"	"	Daisy Hill Mining Co.	Daisy Hill, gold. Shaft; free; steam and water. Frank Morse, supt.
"	"	Gold Bar Quartz Mining Co.	W. F. Corwin, prest.; W. H. Weldon, secy. and mgr.; Wm. George, treas. Cap. stk. \$1,000,000. Gold Bar Quartz, gold. Shaft; free; steam and water. W. H. Weldon, supt.
"	"	Gold Point Consolidated Gold & Silver Mining Co.	S. Granger, prest.; A. B. Brady, secy.; Watt & Co., treas.; James Bennallack, mgr. Cap. stk. \$50,000. Gold Point, gold. Shaft and tunnel; free; water. Jas. Bennallack, supt.
"	"	Golden Treasure Mining Co.	Mrs. F. Sauvee, treas.; Frank Duhamne, mgr. Golden Treasure, gold. Steam. Frank Duhamne, supt.
"	"	Green Mountain Gold Mining Co.	Wm. George, prest.; Elam Biggs, secy. and treas. Cap. stk. \$900,000. Green Mountain, gold. Shaft, free; steam.
"	"	Hartery Consolidated Mining Co.	Geo. W. Whiteside, prest.; J. McThomas, secy.; Citizens' Bank, treas.; Geo. Mannheim, mgr. Cap. stk. \$1,000,000. Hartery, gold. Free; steam. Geo. Mannheim, supt.
"	"	Idaho Quartz Mining Co.	Edward Coleman, prest. and mgr.; Geo. W. Hill, secy.; John C. Coleman, treas. Cap. stk. \$34,000. Idaho Quartz, gold. Slope, 10,000 tons; free; water; 40 stamps. Edward Coleman, supt.
"	"	Irish-American Mining Co.	Martin Ford, prest. and mgr.; John Mulroy, secy. Cap. stk. \$2,500,000. Irish-American, gold. Shaft, 30 tons; free; horse, mill. Martin Ford, supt.
"	"	J. M. Lakeman.	Spring Hill and Extension, gold. Slope; free; steam.
"	"	McGuire & Biggs Placer Mine Co.	Gold. Placer; free.
"	"	Maryland Gold Mining Quartz Co.	S. P. Dorsey, prest. and mgr.; L. V. Dorsey, secy. and treas. Cap. stk. \$100,000, Maryland, gold. Shaft and tunnel; free; water. S. P. Dorsey, supt.
"	"	Mendo Mining Co.	J. M. Lakeman, prest. and mgr.; Peter Johnson, secy.; H. Sylvester, treas. Cap. stk. \$15,000. Boneward Bond, Illinois and Wisconsin, gold. Slope, 300 tons; free; steam; stamps. J. M. Lakeman, supt.
"	"	New Eureka Consolidated Gold Mining Co.	San Francisco, Cal., 302 Montgomery st. John Skinner, prest.; A. Walrath, treas. and mgr. Cap. stk. \$1,000,000. Eureka, gold. Shaft, steam. A. Walrath, supt.
"	"	North Star Mining Co.	San Francisco, Cal., 401 California st. James D. Hague, prest.; D. A. Jennings, secy.; Bank of California, treas.; Emile R. Abadie, mgr. Cap. stk. \$1,000,000. North star, gold. Slope, 15,000 tons; free; water, 40 stamps. Emile R. Abadie, supt.
"	"	Omaha Consolidated Gold Mining Co.	San Francisco, Cal., Phelan Bldg. E. W. Hopkins, prest.; C. A. Grow, secy. and treas.; L. Gibson, mgr. Cap. stk. \$2,400,000. Omaha, gold. Slope, 9,000 tons; free; water, 28 stamps. George Mannheim, supt.
"	"	Original Empire Mining & Milling Co.	San Francisco, Cal., 40 California st. Jas. D. Hague, prest.; D. A. Jennings, secy.; Bank of California, treas.; Geo. W. Starr, mgr. Cap. stk. \$1,000,000. Empire, gold. Slope, 15,000 tons; free; water, 40 stamps. Geo. W. Starr, supt.
"	"	Osborn Hill Mining Co.	William Campbell, prest. and treas.; George Campbell, secy. Osborn Hill, gold. Shaft, free; steam.
"	"	Seven-Thirty Mining Co.	James McLachlan, prest.; J. M. Thomas, secy.; Citizens' Bank, treas.; Cap. stk. \$50,000. Seven-Thirty, gold. Shaft, 300 tons; free; steam. J. McLachlan, supt.
"	"	State Ledge Mining Co.	State Ledge, gold. Tunnel, 24,000 tons; free; water; 10 stamps. A. F. Perrin, supt.
"	"	Telegraph Mining Co.	James Zawaskie, prest.; John F. Sullivan, secy.; T. J. Hurley, treas.; M. O'Connell, mgr. Cap. stk. \$365,000. Telegraph, gold. Shaft, 6,000 tons; free; steam, 5 stamps. Jas. Zawaskie, supt.
"	"	H. Upholt.	Washington, gold. Slope, 2,500 tons; free; steam and water.
"	"	Vulcan Mining Co.	Martin Ford, prest. and mgr.; M. McDonough, secy. Cap. stk. \$2,500,000. Vulcan, gold. Shaft, 30 tons; free; horse. Martin Ford, supt.
"	"	Western Star Gold & Silver Mining Co.	San Francisco, Cal., State Deposit Bldg., Room S. Jno. S. Orr, prest.; Jno. A. Reed, secy.; Gustav Kartschke, treas.; E. Zentler, mgr. Cap. stk. \$1,000,000. Western Star, gold and silver. Shafts and tunnels; free; steam and water. E. Zentler, supt.
"	"	White Oak Gold Mining Co.	J. J. Orr, prest.; Jno. Cadden, secy.; F. McAnin, treas. White Oak, gold. Shaft and tunnel; free; steam. J. J. Orr, supt.
"	"	Williams Bros.	Deer Creek, gold. Tunnel and shaft, free, hand. Richard Williams, supt.

GOLD AND SILVER (CONTINUED).

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN	COUNTY	
Grass Valley	Nevada	Work Your Own Diggins Mining Co., J. R. K. Nuttal, prest., Jacob Weissheim, secy., Weissheim Bros., treas., C. A. Brockington, mgr., Cap. stk. \$80,000. Work Your Own Diggins, gold. Shaft and incline, 4,000 tons, free, steam, 10 stamps. C. A. Brockington, supt.
"	"	Wyoming Consolidated Mine, R. F. Kinnels, prest., W. L. Parsons, secy., Citizens' Bank, treas., Cap. stk. \$200,000. Wyoming, gold. Slope, free, steam. R. F. Kinnels, supt.
Gray Eagle Bar	El Dorado	Thomas McCall, Cap. \$20,000. McCall, gold. Tunnel, free, hand. John Page, supt.
(P. O. Michigan Bluff Ky. Forest Hill 692.		
Green Valley	El Dorado	Pyramid Mining & Milling Co., San Francisco, Cal., 175 Railroad av., Chas. Mily, prest., Geo. W. Harvey, secy., J. W. Hodgkin, treas., W. H. Harvey, mgr., Cap. stk. \$100,000. Pyramid, gold. Shaft, refractory, water and steam, 5 stamps. Will H. Harvey, supt.
Ry. Shingle Springs 692.		
Greenville	Plumas	Blind Lead Mining Co., D. McIntyre, mgr. Blind Lead, gold. Tunnel, free.
Ry. Reno 691.		
"	"	McCall & Standart, Gold. Tunnel and shaft, 3,000 tons, free, water, 20 stamps. G. Standart, supt.
Greenwood	El Dorado	Jacob Bressler, Yankee Bar, gold. Placer, water.
Ry. Auburn 692.		
"	"	A. Bellacorta, Bernice, gold. Open pit, hand.
"	"	Martin Biebtrew, Invisable, gold. Tunnel, placer, water.
"	"	Win. Bordin, Flora, gold. Tunnel, 10 tons, free, hand.
"	"	Samuel Kaiser, Ohio, gold. Shaft, free, hand.
"	"	L. E. P. Lechman, Oakland, gold. Shafts, tunnels and pits, free, hand.
"	"	Osborn Gold Mill & Mining Co., San Francisco, Cal., 105 Pine st., W. E. Lamb, prest., W. J. Connett, secy., Wells Fargo & Co. Bank, treas., Cap. stk. \$500,000. Triumph, Fox and Donozo, gold. Tunnel and shaft, water. Frank W. Egan, supt. and mgr.
"	"	Revenge Mill & Mining Co., Philadelphia, Pa., 220 S. Fourth st., Revenge, gold. Tunnel and open pit, free, water, 7 stamps.
Grizzly Flats	El Dorado	McAtree, Mississouri & Poot. Mount Pleasant, gold. Tunnel, 300 tons, free, steam, 10 stamps.
Ry. Placerville 692.		
"	"	Middle Creek Gravel Mining Co., Sacramento, Cal., 2921 1st. st., T. E. Robb, prest., R. F. Parsons, secy. and treas., S. A. Laine, mgr., Cap. stk. \$275,000. Middle Creek, gold. Tunnel, free, steam. S. A. Laine, supt.
"	"	F. R. Morley, Cap. \$5,000. Morley and Sunday, gold. Shaft and tunnel, 200 tons, free, water, 5 stamps.
"	"	Mount Pleasant Mining Co., New York City, 18 Wall st., James D. Hickey, prest. Mount Pleasant, gold and silver. Shaft, free, steam, 10 stamps.
Groveland	Fresno	Cosmopolite Mining Co., Cap. \$5,000. Cosmopolite, gold. Tunnel, free, hand, 5 stamps. H. M. Stanley, supt.
Ry. Oakdale 692 & 693.		
"	"	A. R. Crickshank, Cap. \$15,000. Mary Allen and La Masotte, gold and plat. Tunnels, 5,000 tons, free, steam, 10 stamps.
"	"	James Brothers, Cap. \$2,000. Two Brothers, gold. Shafts and tunnels, 50 tons, free, hand, 5 stamps. J. F. James, supt.
"	"	Mount Zion Mining Co., Cap. \$2,800. Mount Zion, gold. Shaft, free, steam.
"	"	Rhode Island Mining Co., 100 Rock, prest., Winslow H. Boardman, secy., Rhode Island, gold. Shaft and tunnel, free and refractory, hand.
"	"	Winslow Hubbard, Ellen Winton and Eagle Bluff, gold. Shafts and tunnels, free and refractory, hand.
Happy Camp	Siskiyou	A. Clausen, Bald Hornet, gold. Placer, water.
Ry. Montague 692 & 693.		
"	"	Del Norte Mining Co., San Francisco, Cal., 728 Montgomery st., Henry Beck, prest., Wm. H. McCall, secy. and treas., S. S. Richardson, mgr., Cap. stk. \$200,000. Del Norte, gold. Placer, free, water.
"	"	Dillon Hill Mining Co., Cap. \$8,000. Dillon Hill, gold. Placer, hydraulic. M. Mann, supt.
"	"	C. Gordon, Cap. \$7,000. Pennsylvania, gold. Placer, hydraulic.
"	"	David Huey, Prospect Hill, gold. Placer, hydraulic.
Hart	Shasta	R. G. Hart, supt., Redding, Cal., Cap. \$2,000. Texas Consolidated, gold and silver. Tunnels, 10,000 tons, free and refractory, steam, 20 stamps.
Ry. Gold Mine Sp. 692.		
Haystack	Kern	John Hayes, Cap. \$4,000. Orlin and Canty, gold. Tunnel and shafts, 400 tons, free, steam, 5 stamps.
Ry. Caliente 692.		
Hayden Hill	Larsen	Brush Hill Co., Frank Vangeliste, mgr., Cap. \$2,000. Brush Hill, gold. Shaft, 500 tons, free, water, 10 stamps.
Ry. Amesley 527 & 690.		
"	"	Harbert & Lewis, Adm. Cal., W. L. Harbert, prest. and mgr., James C. Lewis, secy. and treas., G. C. Lewis, supt., Shaft, 500 tons, free, horse and water, 5 stamps. W. L. Harbert, supt.
"	"	Hayden Hill Consolidated Mining Co., Redding, Cal., C. S. McCoy, prest., N. Brown, secy. and treas., D. McLane, mgr., Cap. stk. \$100,000. Big Valley and Modoc Chief, gold and silver. Tunnel, free, horse and water, 25 stamps. D. McLane, supt.
"	"	C. A. McBride, Cap. \$500. E. Fay, gold. Placer, 100 tons, free, water, 5 stamps.
Henry	Siskiyou	H. C. Barbrook, Gold, Clavich, Tunnel, placer.
Ry. Hornbrook 692.		
"	"	Blue Gravel Mining Co., A. McLarland, prest., J. O. Johnson, secy. and treas., C. R. Johnson, mgr., Cap. stk. \$50,000. Blue Gravel, gold. Placer. C. R. Johnson, supt.
"	"	Brass Wire Mining Co., Cap. stk. \$2,000. Brass Wire, gold. Placer, free, hand. A. H. W. W. W.

GOLD AND SILVER (CONTINUED).

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	COUNTY		
Henley	Siskiyou	Wm. Lee & Co., Yreka, Cal. Gold. Placer.	
"	(Continued.)		
"	"	Niles Mining Co., A. W. Niles, pres.; L. Wright, secy.; Geo. Lee, treas.; E. A. Niles, mgt. Cap. stk. \$500. Rocky Gulch Bonanza, gold. Placer.	
"	"	Roberts & Thomas. Bumble Bee, gold. Shaft and tunnel, 22 tons; free. W. B. Thomas, supt.	
"	"	Thomas & Roberts. Fairy Queen, gold. Tunnel, 60 tons; free. W. B. Thomas, supt.	
Hildreth	Fresno	P. Bazinet. Eliza Jane, gold. Slope and tunnels, 12 tons; free; horse, arrastre.	
Ry, Fresno City 632.			
"	"	Joseph Markle. Gold. Slope; free; horse, arrastre.	
"	"	Mrs. R. C. Williams. Cap. stk. \$5,000. Last Chance, Hughes, Turkey's Nest, gold. Tunnel, placer, 40 tons; free; horse, arrastre.	
Hornbrook	Siskiyou	J. C. Brown. Indian Girl, gold. Open pit, 50 tons; free; water.	
Ry, 692.			
"	"	J. J. Fowler. Edson, gold. Free; water, arrastre.	
Hunt's Hill	Nevada	A. G. Turner. Cap. \$20,000. Eastern and Main, gold. Placer and drift, hydraulic.	
(P. O. You Bet) Ry, Nevada City 490.			
Indio	San Diego	Consolidated Dos Palms Mining Co., Kansas City, Mo., 400 405 Heist Bldg. Peter W. Kline, pres.; Robert A. Heim, secy.; Nelson E. Acers, treas.; C. E. Bloomer, mgt. Cap. stk. \$2,000,000. Dos Palms, gold. Tunnels, free.	
Ry, San Antonio 621 (14 m.)			
Inskip	Butte	Christof & Co. Cap. \$6,000. Owl, gold. Tunnel and shaft, 2 tons; free; hand.	
Ry, Oroville 622.			
"	"	Davis & Co., West Branch, gold. Placer, water.	
"	"	Mammie Enos. Cap. \$1,500. Ogden Revere, gold. Placer; water.	
"	"	Golden Summit Blue Gravel Mining Co., Golden Summit, Cal. Golden Summit, gold. Deep placer, tun- nel, hand.	
"	"	Thomas Henderson. Cap. \$2,000. Golden Thread, gold. Tunnel, 25 tons; free; water.	
"	"	Faustino Machado. Cap. \$300. Machado, gold. Placer.	
Jackson,	Amador	Albany Gold Mining Co., San Francisco, Cal., 330 Pine st., Room 5. John Henderson, pres.; F. E. Lutz, secy.; H. R. Lounsbury, treas. and mgt. Cap. stk. \$1,000,000. Albany, gold. Deep shafts and tun- nels (developing), free; steam.	
Ry, Yuba 622 (12 m.)			
"	"	W. N. Bar One, San Francisco, Cal., cor. Mission and Twenty-first sts. Gold. Tunnels, shafts and drifts; free and refractory. Water, 30 stamps and concentrator.	
"	"	Wm. Doyle. Doyle, gold. Shaft and tunnel, 200 tons; free; water.	
"	"	Kennedy Mining & Milling Co., San Francisco, Cal., 494 Montgomery st. John Barton, pres.; L. F. Reich- ling, secy. and treas.; J. F. Parks, mgt. Shaft and slope, 35,000 tons; free; water and steam, 40 stamps. J. F. Parks, supt.	
"	"	Zella Mining Co., San Francisco, Cal., 137 Montgomery st. Frederick O. Heydenfeldt, pres.; Thomas O. Heydenfeldt, secy.; Crocker-Woodworth National Bank, treas.; Zella, gold. Shafts, 48,000 tons; free; steam and water, 40 stamps and concentrator. W. F. Deterf, supt.	
Jack, sonville	Tuolumne	C. A. J. Waterman. Golden Crystal, gold. Shaft, tunnel and slope, free; hand.	
Ry, Oakdale 622 (32 m.)			
Jamestown	Tuolumne	App & Co. Gold. Shaft, free; water and steam, 25 stamps.	
Ry, Milton 622.			
"	"	Dutch Mining Co. Dutch, gold. Shafts, 60 tons; free; horse, 5 stamps. R. Fitzgerald, supt.	
"	"	G. A. Leland. Cap. \$20,000. Nigger Hill, gold. Hand.	
"	"	Martha Washington Placer Mining Co., Oakland, Cal., 112 Webster st. Mrs. S. Gertrude Smyth, pres.; Mrs. P. T. Burrell, secy. and treas. Cap. stk. \$50,000. Florida, gold. Placer, free; water and elec- tricity.	
"	"	Rawhide Mining Co., San Francisco, Cal. W. A. Seyalls, pres. and mgt.; A. Judson, secy.; John Ballard, treas. Rawhide, gold. Shaft, refractory, steam and water, 40 stamps. W. A. Seyalls, supt.	
"	"	Tuolumne Gold Mining Co., San Francisco, Cal. O. H. Bagart, pres.; I. Volmer, secy.; I. Kallmes, treas. and mgt. Cap. stk. \$2,000,000. Table Mountain, gold. Shafts, drifts and tunnels, steam devel- oping. I. Kallmes, supt.	
Johns Valley,	Phumas	Franklin Consolidated Gold Mining Co. D. McFarlane, pres. and secy.; W. Sperry, treas.; T. L. Jones, supt.	
Ry, Chat 190			
"	"	Johnson Mining Co. John Nevill, pres.; Sam W. Cheyney, secy. and mgt.; Bank of California, treas.; Cap. stk. \$3,000,000. Johnson, gold. Shaft and tunnel, free; water. Sam W. Cheyney, supt.	
Julian	San Diego	Eagle Mining Co. Eagle, gold. Shaft and tunnel, 50 tons; free, mill. A. N. Frary, supt.	
Ry, Lakeside 443.			
"	"	Ella Mining Co. Ella, gold. Tunnel, free; horse. S. N. Wilcox, supt.	
"	"	Owens Consolidated Mining Co., San Diego, Cal. H. A. Williams, pres. and treas.; John M. Harney, secy. Cap. stk. \$200,000. Owens, gold. Shaft, free; steam, 10 stamps.	
Keeler	Inyo	James Jenkins. Harrison, silver. Tunnel and shaft, 10 tons; refractory.	
Ry, 108.			
"	"	Robert Lockett. Landmark, gold, silver and lead. Shaft and tunnel, 30 tons; refractory, hand.	
Kennett	Shasta	Anglo-California Gold Mining & Milling Co., Chicago, Ill., 22 Clark st. J. F. Lee, pres.; W. J. McMullen, secy.; E. H. Whited, treas.; C. M. Dobson, mgt. Cap. stk. \$1,000,000. Anglo-Californian, gold. Shafts and tunnels, free and refractory, water, 20 stamps. Charles Ferguson, supt.	
Ry, 622			

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF FUEL, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	COUNTY		
Nevada City	Nevada	Manzanita Consolidated Gravel Mining Co., George C. Shaw, pres.; Robt. J. Simmons, secy.; E. M. Preston, treas.; Robt. Simmons, mgr. Manzanita Consolidated, gold. Placer; water (developing). Robt. Simmons, supt.	
"	"	Mayflower Mining Co., W. H. Martin, pres. and mgr.; John Waters, secy.; Robt. Martin, treas. Cap. stk. \$10,000. Mayflower, gold. Tunnel and shaft, 2,000 tons; free; water; 4 stamps. W. H. Martin, supt.	
"	"	Mountaineer Mill & Mining Co., San Jose, Cal. J. A. Hornderger, pres.; A. E. Moody, secy. and treas.; W. A. Dennis, mgr. Cap. \$100,000. Mountaineer, gold. Slope and tunnel, 10,000 tons; free; water; 20 stamps. W. A. Dennis, supt.	
"	"	Olin Gold & Silver Mining Co., Chas. Klingensdorf, pres.; R. Casper, secy.; J. J. Ott, treas.; Carl Hesse, mgr. Cap. stk. \$1,500,000. Nebraska and Wait for the Wagon, gold. Placer; hydraulic. Geo. Nihell, supt.	
"	"	Providence Mining Co., San Francisco, Cal. N. W. Cor. Fourth and Bryant sts. Peter Tauphans, pres.; W. H. Widman, secy.; Bank of California, treas.; Carl Davis, mgr. Cap. stk. \$1,000,000. Providence, gold. Shafts and tunnel, 25,000 tons; free; water; 40 stamps. Carl Davis, supt.	
"	"	Stiles Gold Mine, San Francisco, Cal., 310 Pine st. James Morgan, pres.; John A. Robinson, secy.; Bank of California, treas.; Wm. B. McSherry, mgr. Cap. stk. \$1,000,000. Stiles, gold. Shaft; free; steam. Wm. B. McSherry, supt.	
"	"	West Harmony Gravel Mining Co., 61 Broad st. R. C. Walbrath, pres. and mgr.; A. Isard, secy.; W. W. Stow, treas. West Harmony, gold. Shaft, 60,000 tons; free; water. R. C. Walbrath, supt.	
Newcastle Ry., 692.	Placer	W. J. Lawrence. Cap. \$45,000. Lawrence and Jenny Lind, gold. Shaft, 7,000 tons; free; water; mills.	
"	"	E. L. G. Steele & Co., San Francisco, Cal., 208 California st. Live Oak, gold. Slope; free; horse. Robt. Jones, supt.	
Newhall Ry., Sanger, 692.	Los Angeles	Mary Frederick Mine. C. D. Rust, mgr. Gold. Tunnel and slope; free; hand, steam and water.	
Nimshew Ry., Chico 692 (22 mi.).	Butte	Eagle Gold Mining Co., Sam Rugh, pres.; T. C. Whitely, secy.; Bank of California, treas.; G. C. Higgins, mgr. Cap. stk. \$90,000. Eagle, gold. Tunnel; placer; hydraulic. G. C. Higgins, supt.	
North Bloomfield Nevada City 400 (14 miles).		Derbee Blue Gravel Mining Co., San Francisco, Cal., 329 Sansome st., Room 10. A. G. Chauchic, pres.; Theo. Wetzel sr., secy.; London, Paris and American Bank, treas.; Theo. Wetzel jr., mgr. Cap. stk. \$100,000. Derbee, gold. Placer, shaft, 50,000 tons; steam and hydraulic. Theo. Wetzel jr., supt.	
"	"	North Bloomfield Gold Mining Co., San Francisco, Cal., 329 Sansome st. H. Fichoir, pres.; Bank of California, treas. Cap. stk. \$3,000,000. North Bloomfield, gold. Hydraulic. J. G. Mather, supt.	
North Columbia Ry., Colfax 692.	Nevada	Delhi Mining Co., San Francisco, Cal., 329 Sansome st., Room 25. R. McMurtry, pres.; C. F. Hunt, secy.; London, Paris and American Bank, treas.; C. H. Mallen, mgr. Cap. stk. \$100,000. Delhi, gold and silver. Tunnel, 10,000 tons; free; water; 18 stamps. C. H. Mallen, supt.	
"	"	Enterprise Gold Mining Co., North Columbia, Cal. Major J. S. McBride, pres.; C. S. Prime, secy.; R. McMurtry, treas.; C. H. Mallen, mgr. Cap. stk. \$100,000. Enterprise, gold and silver. Shaft and tunnel; free; hand. C. H. Mallen, supt.	
Novelty Ry., Siskiyou 692 (175 mi.).	Siskiyou	Gold Run Mining Co., Cap. \$30,000. Gold Run, gold and silver. Tunnel, 2,000 tons; free; water; 4 stamps. A. Duenkel, supt.	
"	"	Know Nothing Quartz Mining Co. Know Nothing, gold. Tunnel, 1,000 tons; free; water, 4 stamps. Louis Devans, supt.	
Oak Bar Ry., Yreka 692.	Siskiyou	Jensen & Co., gold. Placer; water. C. Jensen, supt.	
"	"	C. H. Peck & Co. Peck's Bad Boy, gold. Free; water, arrastre. C. H. Peck, supt.	
Ogilby Ry., 692.	San Diego	P. B. Mathiason, St. Louis, Mo., 539 N. Second st. Capital \$20,000. Mother Lode, gold. Shaft and tunnels, free.	
"	"	Pasadena Gold Mining Co., Pasadena, Cal. W. T. Grimes, pres.; P. B. Mathiason, secy.; Wm. Borthwick, mgr. Cap. stk. \$200,000. Rosa Lowman, gold. Tunnel; free, hand; 20 stamps; Wm. Borthwick, supt.	
"	"	Paymaster Mining Co., Boston, Mass. Chas. P. Hemenway, pres.; John Dodd, secy.; T. Quinby Browne, treas.; H. W. Blaisdell, mgr. Cargo, Michachio, gold. Shaft, 18,000 tons; free; steam; 20 stamps. Hiram W. Blaisdell, supt.	
Onto Ranch Ry., Latrobe 692 (30 miles).	El Dorado	Crystal Gold Mining Co., San Francisco, Cal., 314 Eddy st. George H. Hayes, pres.; S. A. Kelly, secy. and treas.; L. L. Alexander, mgr. Cap. stk. \$250,000. Crystal, Croole, Mountain Quail and Croole North, gold. Shaft and tunnel, free and refractory; water, 8 stamps. L. L. Alexander, supt.	
Onto Ry., Hudson 692.	Shasta	Joseph E. Bell, Shasta, Cal. Summit, gold. Tunnels, 250 tons, refractory. J. Scranton, supt.	
"	"	Davis & King, Sunny Hill, Cal. J. P. W. Davis, mgr. King, gold. Tunnel, 300 tons; refractory; water, arrastre, mill. J. P. W. Davis, supt.	
"	"	N. Gardner. Red Hill, gold. Placer; hydraulic.	
"	"	Sharp Mining Co., San Francisco, Cal., 426 Townsend st. E. R. Hall, pres.; Louis Sharp, secy. and treas.; L. V. Loomis, mgr. Cap. stk. \$20,000. Grey Eagle, gold. Tunnels, 1,500 tons; free and refractory, water, 5 stamps, mill. L. V. Loomis, supt.	
Ophir Ry., New Castle 692.	Placer	Wm. Geach, Auburn, Cal. Cap. \$20,000. Central and Humburg, gold. Shaft, free; horse.	
"	"	John Holbrook & Son, New Castle, Cal. Cap. \$50,000. June Bug and Lena Rivers, gold. Shaft, 1,000 tons; refractory, water, 5 stamps. S. T. Holbrook, supt.	
"	"	Hibbard & Reed, Auburn, Cal. Gold Blossom, gold. Shaft, 4,000 tons; refractory; water, 10 stamps. E. L. Hubbard, supt.	
"	"	N. Marling & Son. Bullion, gold. Shaft; free and refractory, steam.	
"	"	W. R. Monahan. Monumental, gold and silver. Shaft, free, horse (developing).	

GOLD AND SILVER—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Ophir,	Placer	Ophir Gold & Silver Mining Co., W. Steel, pres't., J. W. Mackey, sec'y.; C. C. Handy, treas.; L. Ferguson		
(Continued.)		mgr. and supt., Cap. stk. \$300,000. Ophir, gold and silver. Shaft, 1,500 fms; free, water, 10 stamps.		
"	"	Chas. A. Reed, st. Lawrence, gold. Tunnel and shafts, free and refractory, hand mill under construc-		
"	"	tion.		
"	"	Schubal & Co., New Castle, Cal. Boulder, gold and silver. Shaft and drift; free and refractory, water.		
"	"	Orto T. Walter. Morning Star, gold. Shaft, free and refractory, water and hand.		
"	"	James S. Winn. Brush Fence, gold. Tunnel, 1,500 fms; free.		
Orleans Bar	Humboldt	Allen & Lord. Cap. \$4,000. Red Cap and French Bar, gold. Placer, hydraulic. A. H. Allen, supt.		
Ry. Arcata 692.				
"	"	A. Markusen. Cap. \$1,000. Croton Bar, gold. Placer, hydraulic.		
"	"	Orleans Bar Mining Co., London, Eng., the Cannon st., E. C. G. A. Batchelor, pres't., P. L. Young, sec'y.		
"	"	treas. and mgr. Wilder, gold. Placer, hydraulic, 12 mft. P. L. Young, supt.		
Oro Grande S. Bernardino		Joseph Crisswell. Side Window and Key Hole, gold and silver. Shafts and drifts, refractory 10 stamps		
(P. O. Hallett) Ry. 26.		mill.		
"	"	Pacific Gold & Silver Extraction Co., Los Angeles, Cal. M. M. Morrison, pres't., E. L. Dohney, sec'y.; J.		
"	"	B. Rentschler, treas. and mgr. Cap. stk. \$100,000. O. G. and O. K., gold and silver. Shaft, 4,500 fms;		
"	"	free and refractory, steam, 10 stamps. J. B. Rentschler, supt.		
Patterson Mng. Just Mono		Great Western Consolidated Mining Co., San Francisco, Cal. Wm. Brown, pres't., Martin Jones, sec'y.;		
(P. O. Sweetwater,		H. C. Callahan, treas. Cap. stk. \$1,000,000. Great Western, silver. Tunnel, free developing.		
Nev. Ry. Hawthorne,				
Nev., 108.				
"	"	Rattler Mining Co., Sweetwater, Nev. Cap. stk. \$100,000. Rattler, gold and silver. Drifts developing.		
"	"	A. S. Kilpatrick, supt.		
Pent	Butte	Durbin Mining Co., San Francisco, Cal., 308 Alhambra st. D. A. Heller, pres't., Walter N. Kempton, sec'y.;		
Ry. Oroville 26.		Changars, Bank, treas.; L. J. Lewis, mgr. Cap. stk. \$1,000,000. Durbin, gold. Tunnel, placer, 210,000		
"	"	tons, free, water. L. J. Lewis, supt.		
Peris	San Diego	Adyor Mining Co., East St. Louis, Ill. T. J. Kroese, pres't. and mgr. Elliott B. Page, sec'y. and treas.;		
Ry. 26, 6 miles.		Cap. stk. \$100,000. Adyor and Koscoe, gold. Tunnel, free.		
"	"	Mortimer Curran, Los Angeles, Cal. Colorado, gold. Slope developing; free. Frank A. Garbutt, supt.		
"	"	Good Hope Consolidated Gold Mining Co., J. M. Seabury, pres't.; J. Everett Bird, sec'y. and mgr. E. M.		
"	"	Bird, treas. Cap. stk. \$100,000. Good Hope, San Jacinto and Anney, gold. Shaft and slope, 15,000		
"	"	tons, free, steam, mills. J. B. Dorian, supt.		
Pike City	Stella	King Solomon Mining Co., Grass Valley, Cal. C. C. Toms, Bank, Mearns st. Flom Blazes, pres't.; J. M. Thomas,		
Ry. Nevada City 190.		sec'y. Citizens' Bank, treas.; W. H. Weldon, mgr. Cap. stk. \$200,000. King Solomon, gold. Tun-		
"	"	nels, free, water, 10 stamps. W. H. Weldon, supt.		
Placerville	El Dorado	Barnes Mining Co., H. E. Robinson, mgr. Barnes, gold. Shaft, free and refractory, steam. H. E. Rob-		
Ry. 692.		inson, supt.		
"	"	Blair Drift Mine, San Francisco, Cal. H. O. Bacon, pres't., sec'y. and treas.; E. P. Bacon, mgr. Blair,		
"	"	gold. Tunnel developing.		
"	"	Bobby Burns Mining Co., Henry G. Miller, treas. Bobby Burns, gold. Shaft, free, water, 10 stamps;		
"	"	Henry G. Miller, supt.		
"	"	El Dorado Big Tunnel & Mining Co., H. S. Morcy, pres't.; George W. Kane, sec'y. Thos. Alderson, treas.;		
"	"	L. McNeill, mgr. and supt. Cap. stk. \$100,000. El Dorado Big Tunnel, gold. Tunnel, water.		
"	"	El Dorado Water & Deep Gravel Mining Co., Arthur Young, pres't.; William R. Colamb, sec'y. and treas.		
"	"	Thirty mines, gold. Hydraulic.		
"	"	Middlebrook Mill Mining Co., Sacramento, Cal., 302 1st st. C. S. Robb, pres't.; B. L. Parsons, sec'y. and		
"	"	treas.; S. A. Lane, mgr. Cap. stk. \$50,000. Middlebrook, gold. Tunnel, hand. S. A. Lane, supt.		
"	"	Richard & Gregory, Samuel Gregory, sec'y. and treas. George Gregory, mgr. Oak Ranch, gold. Shaft		
"	"	and slope, 270 tons, steam, 10 stamps. George Gregory, supt.		
"	"	W. P. Stanley, Toll House, gold. Shaft and drifts, water, 10 stamps, toll. W. C. Green, supt.		
"	"	Toll House Mining Co., Hook and Ladder, gold. Shaft and drifts, free, water, 10 stamps. W. C. Green,		
"	"	supt.		
Plymouth	Amador	Bay State Mining & Development Co., W. T. Jones, pres't.; A. J. Coster, sec'y. J. Woodford, treas. Cap.		
Ry. 692.		stk. \$200,000. Bay State, gold. Shaft, steam, W. T. Jones, supt.		
"	"	Oscoda Consolidated Mining Co., San Francisco, Cal., 307 Montgomery st. Jacob Wray, pres't.; Holland		
"	"	Smith, sec'y. Jos. Wertheimer, treas. Michael Wertheimer, mgr. Cap. stk. \$100,000. Oscoda, gold		
"	"	and silver. Shaft, free and refractory, water. J. W. Brown, supt.		
Quincy,	Plumas	W. S. Deam, Genesee, gold. Placer, hydraulic.		
Ry. Reno, Nev., 692.				
"	"	Golden Gate Mining Co., Golden Gate, gold. Tunnel, shaft and open pit, free, steam, 10 stamps. C. L.		
"	"	McLaughlin, supt.		
"	"	Goodwin & Kelley, Cap. \$80,000. Hungarian, gold. Placer, hydraulic.		
"	"	A. F. Leavitt. New Town Flat, gold. Shaft and tunnel, hand.		
"	"	Frank Vere, Cap. \$10,000. Vere's, gold. Placer, hydraulic.		
Railroad Flat	Calaveras	H. S. Ellsworth, Keystone, gold. Shaft, 200 tons, free, hand, 5 stamps.		
Ry. Spring Valley 692.				
"	"	Henry Timm, Cap. \$1,000. Arima, gold. Shafts, 100 tons; hand.		
Raymond	Fresno	Cook Bros., Cap. stk. \$100,000. Gold. Open pit, 1,500 tons; horse.		
Ry. Herbert Switch 692.				

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Redding Ry. 622.		Shasta	Isaac Atwood, Lloyd, gold. Shaft and tunnel; free; water.	
"	"	"	Benjamin N. Bugbey, Sacramento, Cal., Court-House. Cap. \$50,000. Little Nellie, gold. Tunnel, 2,500 tons; free and refractory; water, mill. J. M. Cleaves, supt.	
"	"	"	Don Carlos Gold Mining Co., Santa Cruz, Cal., 179 Pacific av., I. L. Thurber, pres.; L. Markham, secy., and mgr.; City Bank of Santa Cruz, treas. Cap. stk. \$100,000. Don Carlos. Tunnel; free and refractory; water and electricity, mill. Chas. Thiedelwaite, supt.	
"	"	"	Eureka Tellurium Gold Mining Co., Peter Scherer, pres.; George C. Jones, secy.; Bank of Shasta Co., treas. Cap. stk. \$1,250,000. Eureka, gold. Shaft and tunnel; free and refractory; steam. Peter Scherer, supt.	
"	"	"	Christensen & Foster, T. W. Foster, mgr. Cap. \$10,000. Black Jack, gold. Tunnel, 15,000 tons; free; water, mill. C. P. Christensen, supt.	
"	"	"	W. C. Hart & Co., T. H. Hart, mgr. Bismark Consolidated, gold and silver. Tunnels; free; water; mill. W. C. Hart, supt.	
"	"	"	Reed Mines Consolidated Co., San Francisco, Cal., Nevada Block. I. L. Howard, pres.; A. L. Cheminant, secy.; James Duncan, treas.; Robert Stevenson, mgr. Cap. stk. \$1,000,000. Reed, gold. Tunnels and shafts, free and refractory; steam, 5 stamps. Robert Stevenson, supt.	
Behr Hill (P. O. Orleans) Ry. Nevada City 480.		Nevada	Wankeshan Consolidated Co., Wankeshan, gold. Tunnel, placer; free; horse; hydraulic. John R. Jones, supt.	
Riverside San Bernardino Ry. 622.		San Bernardino	Gavilan Mining & Milling Co., A. S. White, pres.; C. W. Sylvester, secy. and mgr.; J. S. Castleman, treas. Cap. stk. \$1,000,000. Gavilan, gold. Shaft and tunnels; free; mills. E. R. Williams, supt.	
Rumel Creek (P. O. Orleans) Ry. Ar- cata 622.		Siskiyou	Rumel Creek Mining Co., Arcata, Cal. Wm. Lord, pres.; treas. and mgr.; Fred Gent, secy. Cap. stk. \$30,000. Rumel Creek, gold. Placer, water. John L. Fechey, supt.	
San Andreas Ry. Valley Springs 622		Calaveras	Agostini & Ortion, G. Agostini, pres.; A. Ortion, secy.; E. Ortion, mgr. Cap. \$15,000. Last Chance, gold. Shaft and tunnel; free; steam and water. G. Agostini, supt.	
"	"	"	John Rathgel, Cap. \$100,000. Cordova, shaft. Free, steam, 20 stamps. J. Holland, supt.	
"	"	"	Ben. K. Thurn, Illinois, gold. Shaft; free; horse.	
"	"	"	Thorpe Mining Co., Fourth Crossing, Cal., Moses Thorpe, mgr. and supt. Thorpe, gold. Shaft, free and refractory; water, 10 stamps (developing).	
"	"	"	Union Shaft Gold Placer Mining Co., Wm. M. Murphy, pres.; Ira Hill Reed, secy. and mgr.; James Tiscornia, treas. Cap. stk. \$18,000. Union Shaft, gold. Shaft, free; water and steam, 8 stamps. Ira Hill Reed, supt.	
San Bernardino, San Bernardino (Ry. 622, 40 miles.)		San Bernardino	Bear Valley Mining Co., 643 W. Third st., Lewis Deck, pres.; John R. Lashby, secy.; Ernest Waghorn, treas.; Chas. L. Metzgar, mgr. Cap. stk. \$1,000,000. Cordova, Moonstone, Iron Mask, Pittsburg, East End, West End, gold, silver and lead. Shafts and tunnels; refractory. Chas. L. Metzgar, supt.	
Santa Cruz Ry. 552, 622.		Santa Cruz	A. H. Fitch, Stribling, gold and silver. Tunnel, free and refractory, steam, 5 stamps.	
Sawyer Bar Ry. Gazelle 192 (75 mi.)		Siskiyou	A. Ahlgren, Red Hill, gold. Placer, hydraulic	
"	"	"	C. Barry & Co., Whistle Bear, gold. Open pit, placer, water.	
"	"	"	G. W. Bigelow & Sons, Cap. \$7,000. Channel, gold. Placer, water.	
"	"	"	S. L. Finley, gold. Placer, water.	
"	"	"	Gold Bull Mining Co., Canton, Ohio, I. P. Hode, pres.; L. M. Jones, secy.; H. E. Miller, treas. Cap. stk. \$1,000,000. Mountain Laurel and Kinnath, gold. Tunnel, 4,300 tons; free, steam and water, 20 stamps. Albert Ball, supt.	
"	"	"	Frank Manha & Co., Cap. \$25,000. Belcher, gold. Placer, hydraulic. Frank Manha, supt.	
"	"	"	P. Napoles & Co., Cap. stk. \$100,000. Progress, gold. Placer, water. Pedro Napoles, supt.	
"	"	"	Fred Olson, Cap. \$2,000. Olson, gold. Placer, hydraulic.	
"	"	"	Edward Roberts, Roberts, gold. Tunnel and shaft, 1,850 tons, free, water, arrastre.	
"	"	"	Uncle Sam Quartz Mining Co., Uncle Sam, gold. Shaft and tunnel; free, water, 8 stamps. Edmund Sheffield, supt.	
"	"	"	John C. Winkler, Panther Hill, gold. Placer, hydraulic.	
Scott River Ry. Yreka 622.		Siskiyou	Reynolds & Jacobs, Skunk Hill, gold. Placer, hydraulic.	
Send Valley Ry. Yreka 622.		Siskiyou	W. T. Grider, Cap. \$8,000. Mississippi, gold. Placer, water.	
"	"	"	Lee Yut Co., Cap. stk. \$10,000. Wood Bros., gold. Placer, hydraulic. M. B. Phillips, supt.	
"	"	"	John S. Lowden sr., Hamburg Bar, Cal., Lowden's Ranch. Cap. \$20,000. Jack Lowden, gold. Placer, water and hydraulic. J. S. Lowden, supt.	
"	"	"	J. P. Shinar & Bro., Kenyon Claim, gold. Placer, free, water.	
Shasta Ry. 622.		Shasta	David Pesenti, Live Oak, gold. Shaft, tunnel, 130 tons, free, steam.	
Shingle Springs, El Dorado (P. O. Green Valley) Ry. 622.		El Dorado	Dividend Mining Co., San Francisco, Cal.; 173 Railroad av., D. C. W. Hodgkins, pres.; secy. and treas., Aymer Colton, mgr. Cap. \$12,000. Dividend, gold. Placer, hand and water.	
"	"	"	Sailor Jack Mining Co., Oakland, Cal., 1010 Washington st., D. P. Gray, pres.; Sol. Rogers, secy.; H. H. Worley, treas. Sailor Jack, gold. Tunnel, free, steam, mill. Harry Pridaux, supt.	

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Sierra City	Sierra		A. C. Busch. Phoenix, gold. Tunnel, 15,000 tons; free, water, 10 stamps.	
"	Nevada City 490.			
"	"		Butte Saddle Gold Mining Co., Francis Joseph Seitz, pres., Antone Seitz, secy., F. J. Seitz, treas. and mgr., Cap. stk. \$300,000. Butte Saddle, gold. Shaft and tunnel, free.	
"	"		Chips Mining Co., San Francisco, Cal., 79 Nevada Block, W. F. Dean, pres. and treas., Chas. F. Elliot, secy. and mgr., Cap. stk. \$100,000. Chips, gold. Tunnel, 1,500 tons; free, water, 12 stamps. Samuel Locke, supt.	
"	"		Sierra Buttes Gold Mining Co., Ltd., London, Eng., 18 Dendelhall st., E. C., F. Tendon, pres.; John Saul, secy., Wm. Johns, mgr., Cap. stk. \$125,000. Sierra Buttes, gold. Tunnels, 7,200 tons; free, water, 10 stamps. Stephen Thomas, supt.	
"	"		Young America Consolidated Mining Co., Thos. Brennan, pres., J. H. Knuthson, secy., Cap. stk. \$2,500,000. Young America, gold. Tunnel, 25,000 tons; free, water, 10 stamps. John H. Henderson, supt.	
"	"		Yuba Consolidated Gold Mining Co., John H. Henderson, pres., J. H. Knuthson, secy., Hagerty & Lehman, treas., Cap. stk. \$100,000. Yuba, gold. Tunnel, placer, Gold Corbello, supt.	
Shelling	Merced		Mrs. Sophia Jacobs. Minnesota and Spangley, gold. Free and refractory, 10 stamps. Paolo Dazzano, supt.	
Ry. Merced 692.				
Sonora	Tuolumne		Budget Mining Co., A. E. Ellis, pres., J. M. Palmer, secy. and treas., Geo. L. Statton, mgr., Budget, gold. Shaft and tunnels, free, water, Geo. L. Statton, supt.	
Ry. Oakdale or Milton 692.				
"	"		Consolidated Eureka Mining Co., San Francisco, Cal., 234 California st., Hayward & Hebert, pres. and mgr., C. L. Bridge, secy. and treas., Consolidated Eureka, gold. Shaft, 11,000 tons; free, steam and water, 20 stamps. C. H. Thomas, supt.	
"	"		New Albany Mining Co., New Albany, gold. Shaft, 900 tons; free, water, 10 stamps. W. Long, supt.	
Sandsbyville	Tuolumne		Leachman Prospecting Co., San Francisco, Cal., 508 California st., John S. Cox, pres., Charles Christie, secy., John Freedman, mgr., Reddy, gold and silver. Shaft and tunnels, 4,000 tons; free, water, 10 stamps. William Sharwood, supt.	
Ry. Oakdale 692.				
"	"		W. Sharwood. Porto Fino, gold. Shaft, free, steam, developing.	
"	"		Tuolumne County Development Co., John Severs, pres., C. Hettmann, secy. and treas., Cap. stk. \$100,000. Shaft and tunnel, gold and silver. Shaft, 7,200 tons; free, steam and water, 10 stamps. A. Hettmann, supt.	
S. Riverside S. Bernardino			Peterson Bros., Terra Cotta, Cal., Cap. \$2,000. Consolidated and Lucky Turn, gold and silver. Shaft, tunnel and slope, free and refractory. David Peterson, supt.	
Ry. Elmore 26.				
Spenceville	Nevada		Elmer & Petesch. Cap. \$100,000. Champion Consolidated, gold, silver and copper. Tunnel and shaft, 600 tons; refractory, water and electricity. Cap. C. C. Elmer, supt.	
Ry. Wheatland 692.				
"	"		Goodhope Mining Co., Gates Valley, Cal., W. Pascoe, pres., R. V. Neent, secy. and treas., A. Gale, mgr., Cap. stk. \$200,000. Good Hope, gold and silver. Shaft, free, water, R. V. Neent, supt.	
"	"		W. H. Jackson. Cap. \$2,000. Jackson No. 1, gold, silver and copper. Tunnel, refractory, hand, water, John F. Dempsy, supt.	
"	"		Mammoth Mining Co., Cap. \$200,000. Mammoth, gold, silver and copper. Tunnel, free, and refractory, water, John F. Dempsy, supt.	
Stella	Shasta		J. C. Thickstin, Los Angeles, Cal., Cap. \$250,000. Stella, gold. Tunnel, free, water.	
Ry. Middle Creek 692.				
"	"		West End Co., Cap. stk. \$100,000. West End, gold. Tunnel and shaft, free, water, 10 stamps. F. J. Pitt, mill, Wm. Andrew, supt.	
"	"		Oliver P. Woodward jr., Mountain View, gold and silver. Tunnel and shaft, refractory.	
Sulphur Creek	Colusa		E. M. Cooper, Williams, Cal., Cap. \$200,000. Glade, gold. Shaft and tunnel, 6,000 tons; steam, mill. W. S. Stevens, supt.	
Ry. Williams 692.				
"	"		Manzanita Gold Mining Co., Philadelphia, Pa., 109 E. 13th st., W. W. Gibbs, pres., R. A. C. Smith, secy. and treas., Geo. A. Northey, mgr., Manzanita, gold and silver, free, water, 10 stamps; refractory, steam, 10 stamps and quartz mills. Geo. A. Northey, supt.	
Sunny South	Placer		Hadden Treasure Mining Co., W. S. Davis, secy. and treas., \$100,000. Hadden Treasure, gold. Tunnel, placer, 60,000 tons; horse. Hadden T. Pever, supt.	
(P. O. Michigan Bluff) Ry. Auburn 692.				
Sutter Creek	Amador		Belmont Gold Mining Co., San Francisco, Cal., 50 Pine st., Room 5, Martin Jones, pres., F. L. Lutz, secy., H. R. Lumsden, treas., J. H. T. Lutz, mgr., Cap. stk. \$500,000. Belmont, gold. Shaft and tunnel, 6,000 tons; free, horse, 10 stamps. J. H. T. Lutz, supt.	
Ry. Yuba 692.				
"	"		Heeter Gold Mining Co., San Francisco, Cal., 37 Clay st., F. B. Valentini, pres., James R. Hagler, secy., D. B. Francis, treas., Cap. stk. \$100,000. Hunter, gold. Shaft, free, water, S. B. Valentini, supt.	
"	"		South Eureka Mining Co., J. L. Mayon, pres., Jackson Dennis, secy. and treas., Gold. Shaft, water, J. F. Parks, supt.	
"	"		Wilbur Gold Mining Co., Boston, Mass., 18 Central st., W. Emerson, pres., Irving O. Whitely, secy. and treas., John Freelson, mgr., Cap. stk. \$100,000. Wilbur, gold. Shaft, 300 tons; free, water, 20 stamps. John Freelson, supt.	
Taylor Mine	El Dorado		Blowell Gold Mining Co., San Francisco, Cal., 208 Pine st., Room 4, W. S. Chapman, pres., Ed. J. Stone, secy., Angell & Harman, treas., Taylor, gold. Shaft, 20,000 tons; free, water and electricity, 40 stamps. L. W. Chapman, supt.	
(P. O. Greenwood) Ry. Auburn 692. 1631				
Tremont S. Bernardino			L. Lieber. Cap. \$50,000. King Solomon and Queen Sheba, gold and silver. Tunnel, 5,000 tons; free, steam, 10 stamps. L. Lieber, supt.	
Ry. S. Riverside 26 and 692.				
Three Rivers	Folsom		Wm. O. Clough, Visalia, Cal., Lady Emma, gold and silver. Shaft and tunnel, free, water, 10 stamps.	
Ry. Visalia 782, 783.				

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT
TOWNS AND COUNTY	
Timbuctoo Yuba (P. O. Marysville.)	Marysville Tunnel & Quartz Mining Co., G. H. Boyd, prest.; P. J. Williams, secy.; J. A. Mahon, treas.; F. B. Crane, mgr. Cap. stk. \$1,000,000. Marysville, gold and silver. Shaft and tunnel; free. F. B. Crane, supt.
Trinity Centre Trinity Ky., Redding 692 (51 mi.)	Diddy & Conwell. Cap. \$10,000. Snow Gulch, gold. Placer; hydraulic.
" "	Parry Bros. Cap. \$500. Parry, gold. Placer; water. M. F. Parry, supt.
Tuttle-town Toulumne Ky., Milton 692.	Gagnere Mining Co., San Francisco, Cal., C. O. Dean, prest.; Geo. R. Wilson, secy.; J. P. Gagnere, mgr. Cap. stk. \$10,000,000. Gagnere, gold. Shafts and tunnels; free, water; 20 stamps.
Twenty-nine Palms Mining Dist. S. Bernardino (P. O. Riverside) Ky. Whitewater 692.	Twenty-Nine Palms Mining & Milling Co., Riverside, Cal., 466 Magnolia av. Cap. stk. \$6,000. Oro Fino, Oro Mancho and San Salvador, gold and silver. Shaft; free, hand and steam; quartz mill. Thos. Bakewell jr., supt.
Valley Springs Calaveras Ky., 692.	Horsevill & Co., San Francisco, Cal. Horsevill, gold. Placer; free; steam and water. F. J. Horsevill, supt.
Victor San Bernardino Ky., 692.	Black Hawk Gold Co., Los Angeles, Cal. Jno. E. McFee, prest.; Harry Del Mar, secy.; Alex. Del Mar, treas. Cap. stk. \$2,000,000. Black Hawk, gold. Tunnels and shafts; refractory; steam; 10 stamps, mill.
" "	Morongo Mining & Milling Co., Riverside, Cal. Dr. K. D. Sugart, prest.; S. H. Herrick, secy.; W. S. Sweatt, treas.; D. A. Wheeler, mgr. Cap. stk. \$1,000,000. Rose, gold. Shaft; 3,000 tons; refractory; steam; 5 stamps. D. A. Wheeler, supt.
" "	Riverside Silver Development Co., Riverside, Cal., 158 Seventh st. W. A. Hoyt, prest.; S. S. Nowlin, secy.; Orange Growers' Bank, treas.; John S. Reece, mgr. Cap. stk. \$10,000. Silver Reef, gold and silver. Shafts and tunnels; free; horse. John S. Reece, supt.
" "	Valley Gold Mining Co. Ltd., Holcomb Valley, Cal. W. E. Pedley, mgr. Valley, gold. Placer; hydraulic. F. Pedley, supt.
Volcano Amador Ky., Lone 692.	A. H. Gracey. Lone Willow, gold. Shaft and tunnel; free; steam, quartz mill.
" "	A. H. Gracey & J. D. Matthew. New Castle, gold. Tunnel; free.
" "	Volcano Gold Gravel Mining Co., Santa Cruz, Cal., cor. Cooper and Front sts. Christian Hoffmann, prest.; F. D. Scott, secy.; Pacific Bank, treas.; John Eckart, mgr. Cap. stk. \$600,000. Volcano, gold and silver. Open pit and tunnel, placer, free, hydraulic. John Eckart, supt.
Walker Siskiyou Ky., Yreka 692.	Eli Kelly & Co. Cap. \$3,000. Manifold Compensator, gold. Open pit; water (developing).
Washington Nevada Ky., Colfax 490.	Battle Mining Co. Battle, gold. Tunnel, free, steam, 20 stamps.
" "	German Mining & Milling Co., Rochester, N. Y. H. M. Reichenbach, prest.; Albert Will, prest.; S. C. Passavant, secy.; R. E. Haskell, treas.; M. D. Cooley, mgr. Cap. stk. \$600,000. German, gold. Tunnel; free; water; 10 stamps; M. D. Cooley, supt.
" "	Fritz Meister. Alta and Walderk, gold. Shaft and tunnel, water, 6 stamps, mill.
" "	C. Phelps. Phelps, gold. Placer, free, hydraulic.
" "	W. L. Williamson & M. M. Cole. Giant King, gold and silver. Tunnel; free; water.
Wardsville Santa Cruz Ky., Elbert 692.	Pajaro Mining Co., Sacramento, Cal., 429 J. st. F. R. Waggoner, prest.; Jos. W. Tryon, secy.; Stanton Myers, treas.; R. D. Waggoner, mgr. and supt. Cap. stk. \$10,000. Pajaro, gold and iron. Tunnel, 3,000 tons, free, mill.
Weaverville Trinity Ky., Redding 692.	Trinity River Hydraulic Gold Mining Co., Denver, Colo., Boston Bldg. Wm. Gelder, prest.; L. L. Bailey, secy. and treas.; A. G. Dunbar, mgr. Cap. stk. \$500,000. Hubbard, Denver and Turner, gold. Placer.
Wieland Amador Ky., Yuba 26.	Clinton Consolidated Gold Mining Co., San Francisco, Cal., 234 Montgomery st. Chas. S. Wieland, prest.; Clara E. Ginn, secy.; Nevada Bank and Wells, Fargo & Co. treas. Cap. stk. \$5,000,000. Clinton Con- solidated, gold and silver. Tunnel and shaft, 27,000 tons; free; steam and water, 20 stamps. John B. Ferris, supt.
Williams Colusa Ky., 692.	H. M. Cooper. Cap. \$60,000. Clyde, gold. Shaft and tunnel; free; steam, mill. James Hawkins, supt.
Woll Nevada Ky., Auburn 692.	Live Oak Consolidated Gold Mining Co., San Francisco, Cal., 1011 Fourth st. J. A. Mallett, prest.; H. J. Goethe, secy.; D. O. Mills & Co., treas. Cap. stk. \$25,000. Live Oak, gold. Shaft (developing).
Yon Del Nevada Ky., 490.	G. S. Brown. Brown's, gold. Slope and hydraulic, free, water, 8 stamps.
" "	Jas. McManis. Cap. \$25,000. Fool's Hill, gold. Tunnel, 2,000 tons, free, water, 10 stamps.
Yreka Siskiyou Ky., 692.	Eli Kelly. Bullion, gold. Shaft, free, hand and water.

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT
TOWNS AND COUNTY	
Beggett San Bernardino Ky., 26 (30 miles).	California Iron, Steel & Tin Plate Co., Albuquerque, N. M. T. R. Gable, prest.; C. L. Hubbs, secy. and mgr.; Jesse Anthony, treas. Cap. stk. \$5,000,000. Buck Turpin and Tip Top Groups. Shafts, free.
Livmore Alameda Ky., 692.	H. H. Fletcher. Mendellian, 1,600 tons, chrome, iron. Jos. Tickell, supt.

IRON (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
San Luis Obispo, San Luis Obispo Ry. Port Hartford 552.	W. Copeland, despatch, Monterey st. W. Copeland, pres. and mgt., Capt. Fancher, secy., L. Rackliffe treas., Pick and Shovel, chrome, iron. Tunnel, 80 tons, hand. W. Copeland, supt.

MICA

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Lang Ry. 26.	C. H. Clayton, Cap. \$5,000. McKinley, Open pit, hand.

MINERAL PAINT

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Red Bluff Ry. 692, 640.	Tehama Consolidated Chrome Co., P. O. Cambar, ch. pres. and treas., J. A. Heshelwood, secy. and mgt. Cap. \$10,000. Tehama, chrome. Open pits, 1,000 tons, hand. J. A. Heshelwood, supt.

QUICKSILVER AND ANTIMONY

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Elma P. O. Elida Ry. St. Helena 692.	Elma Quicksilver Mining Co., Boston, Mass., 126 State st., John G. Wright, pres., Henry Hastings, secy. and treas., M. G. Rhodes, mgt., Cap. \$10,000. Elma Mines, quicksilver. Shafts, tunnels and slopes, 10,000 tons, amalgam, steam and air, furnaces. M. G. Rhodes, supt.
Calistoga Ry. 692.	Black Bear Consolidated Quicksilver Mining Co., J. O. Culver, pres., W. L. Culver, secy. and treas., L. W. Lee, mgt., Black Bear, quicksilver. Tunnel and shaft, free. L. W. Lee, supt.
"	Eastern Quicksilver Co., San Francisco, Cal., 120 Montgomery st., J. A. Mudge, pres., F. A. Berlin, secy. Cap. \$10,000. Liverpool, Plymouth, etc., quicksilver. Shaft, steam.
"	Great Western Quicksilver Mining Co., San Francisco, Cal., 120 Montgomery st., Gilbert Pacheco, pres., Abraham Halsey, secy., H. M. Newhall & Co., treas., Cap. \$100,000. Great Western, quicksilver. Shaft and tunnel, 25,000 tons, amalgam, steam, furnaces, Andrew Roca, supt.
Cambaria, San Luis Obispo Ry. San Simon 552.	Oceanic Quicksilver Mining Co., San Francisco, Cal., 120 Sansome st., Peter Dean, pres., Oceanic, quick- silver. Open cuts, tunnel and shaft, 25,000 tons, amalgam, steam, furnaces.
Guerneville Ry. 651.	Great Eastern Quicksilver Mining Co., Oakland, Cal., 611 Market st., Richard Abbey, pres., Alfred Abbey, secy. and mgt., Great Eastern, quicksilver. Shaft and tunnel, 10,000 tons, steam. Alfred Abbey, supt.
Healdsburg Ry. 525.	Cambar King Mining Co., J. S. Young, pres., J. W. Rose, secy., W. P. White, treas., Edward White, mgt., Cap. \$10,000. Cambar King, quicksilver. Tunnel, hand. Edward White, supt.
Hollister Ry. 692.	Stanton Mining Co., San Francisco, Cal., 110 Pine st., R. F. Knox, pres., E. Smith, secy. and treas., Cap. \$10,000. Stanton, quicksilver. Shafts and tunnels, refractory, furnaces.
"	George Vaughan, Cap. \$25,000. Vaughan, Slope and tunnel, hand.
Kernville Ry. Caliente Sta 1082.	Sumner & Brown, Standard, antimony. Shaft and tunnel, J. W. Sumner, supt.
Knoxville Ry. Napa 352.	Antonio McMillan, San Francisco, Cal., 25 Second st., Cap. \$10,000. Redington, quicksilver. Shafts and tunnels, 10,000 tons, amalgam, steam, furnaces. Thomas Callaghan, supt.
"	Lake Mining Co., San Francisco, Cal., 110 Pine st., R. F. Knox, secy. and treas., Cap. \$10,000. Main batian, quicksilver. Shafts, tunnels and open pit, amalgam, steam, furnaces. J. J. Barkins, supt.
Leland Ry. Castella Sta 1082.	Integral Quicksilver Mining Co., New York City, Room 15, 39 Broadway, Arnold B. McCoy, pres., Wm. J. Sampson, secy. and treas., Cap. \$10,000. Integral, Rockade, Boston and at others, quicksilver. Shaft, tunnels, slopes, 60,000 tons, steam, electricity, water, furnaces. Arnold B. McCoy, supt.
Lower Lake Ry. Calistoga 692.	J. C. Baker, Baker, quicksilver. Shaft and tunnels, 2,000 tons, horse and hand, reforts. C. Baker, supt.
"	Sulphur Bank Quicksilver Mining Co., San Francisco, Cal., and California st., Louis E. Parrott, pres., J. Whitcomb, secy., London and San Francisco Bank, Ltd., treas., Cap. \$10,000. Sulphur, quick- silver. Open, 12,000 tons, steam, furnaces. Richard White, supt.
Middletown Ry. Calistoga 692.	Billion quicksilver Mining Co., Thos. Habshaw, mgt., Cap. \$15,000. Billion, quicksilver. Shaft and tunnel, amalgam, horse, furnaces.
"	Munz & Ransdell, Chicago, quicksilver. Shaft, tunnel and open pit, hand.

QUICKSILVER AND ANTIMONY (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK
TOWNS AND COUNTY	NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, AND NAME OF MINE SUPERINTENDENT.
New Almaden, Santa Clara Ry. 692.	Quicksilver Mining Co., New York City, 20 Nassau st. David Mahany, pres.; A. L. Bailey, secy.; Jas. D. Smith, treas.; R. R. Bulmore, agt. Quicksilver. Shaft and tunnel, 25,175 $\frac{1}{2}$ tons; cinnabar; steam and electricity; furnace. Jas. Barry, supt.
Out Hill, Napa Ry. St. Helena 692.	Napa Consolidated Quicksilver Mining Co., Boston, Mass., 56 State st. F. H. Odiorne, pres.; W. B. Buckmaster, secy. and treas. Cap. stk. \$700,000. Manzanita and Eureka, quicksilver. Shaft and tunnels, 20,000 tons; cinnabar; steam; furnace. E. M. Nowcomb, supt.
San Simon, S. Luis Obispo Ry. 552.	Black Hawk Mining Co., John Seecombe, pres. and mgr., W. S. Whitaker, secy., Geo. Van Gordon, treas. Cap. stk. \$2,000; indy. cap. \$5,000. Black Hawk, quicksilver. Tunnels and slope; gray black; hand; reports. John Seecombe, supt.
Sulphur Creek, Colusa Ry. 529.	Abdott Quicksilver Mining Co., San Francisco Cal., 310 Pine st. J. L. Rathbone, pres.; J. W. Pew, secy. Abbott, quicksilver. Slope and tunnel, 8,000 tons; cinnabar; steam; furnace. H. L. Lightner, supt.

SALT

LOCATION OF MINE OR WELL, RAILWAYS, WATER ROUTES AND SHIPPING POINT	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
TOWNS AND COUNTY	NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.
Alvarado, Alameda Ry. 552.	Crystal Salt Works, Newark, Cal. Cap. \$75,000. Crystal dairy. Salt marsh, 5,000 tons; evaporation. Plummer Bros., supts.
El Eden, Alameda Ry. 552.	Capt. Richard Barron. 5,000 tons; sea water; evaporation.
" " "	F. Ohlson. 500 tons, evaporation from sea water.
" " "	Mrs. E. A. Oliver. Course. 1,500 tons, evaporation from sea water.
" " "	Union Pacific Salt Co., San Francisco, Cal., 216 Sacramento st. John Barton, pres.; treas. and mgr., W. F. Barton, secy. Course. 15,000 tons, evaporation.
Olney, San Diego Ry. 552, 692.	La Punta Salt Works. J. E. Shaller, agent; San Diego, Cal. Course. 600 tons; steam; evaporation.
San Francisco, Alameda Ry. 26, 552, 692.	Solar Salt Works, 211 and 213 Sacramento st. Cap. \$85,000. Evaporation, 4,500 tons; steam. Geo. Beattie, supt.
San Lorenzo, Alameda Ry. 552.	Peter Mathiesen Salt Works, Hans Mathiesen, mgr. Course. Salt marsh, 1,500 tons; evaporation. Hand and horse.
Sifts, Colusa Ry. 692.	Antelope Crystal Salt Co., J. W. Good, pres.; T. Harrington, secy., Colusa County Bank, treas.; J. P. Rathburn, mgr. Cap. stk. \$50,000. Course. Well, evaporation, horse. J. P. Rathburn, supt.

SLATE

LOCATION OF QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
TOWNS AND COUNTY	NAME OF QUARRY, KIND OF SLATE, KIND OF QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF QUARRY SUPERINTENDENT.
Kelsey, El Dorado Ry. Placerville 692.	Jacob Strahle Slate Co., San Francisco, Cal., 543 Market st. W. E. Shipman, pres.; R. J. Davis, secy. and treas.; Jacob Strahle, mgr. Cap. stk. \$100,000. Strahle. Open, 2,000 tons; water.
Placerville, El Dorado Ry. 692.	El Dorado Bag Tunnel & Mining Co. H. S. Morley, pres.; Geo. W. Kimble, secy.; Thos. Anderson, treas.; L. McNeil, mgr. Cap. stk. \$100,000. El Dorado. Open and tunnel; water. L. McNeil, supt.
" " "	Perme & Mothersole, Chih Bar, Cal. Chih Bar, open, water. Geo. J. Mothersole, mgr.

SODA

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
TOWNS AND COUNTY	NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
Kocher, Inyo Ry. 108.	Inyo Inyo Development Co., Carson, Nev. H. M. Aylington, pres.; G. F. Ford, secy. and treas.; L. F. J. Winkle, mgr. Cap. stk. \$1,500,000. Owens Lake, soda. Placer, 2,000 tons; steam, mill, 6,000 tons. L. F. J. Winkle, supt.

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.		
TOWNS	AND	COUNTY			
Acton	Ry.	Los Angeles	R. E. Nickel.	Cap. \$5,000. Red sandstone. Open pit, hand.	
Agua Caliente	Ry.	Sonoma	M. K. Cady.	Cap. \$50,000. Basalt. Open pit, hand.	
Bay-side	Ry.	Humboldt	Pacific Coast Construction Co., Eureka, Cal., A. Ballantyne, pres.; W. Simpson, secy.; Thomas Brown, treas. and supt.; James Simpson, mgt.	Cap. stks. \$100,000. Jacoby Creek, sandstone. Open pit, 70,000 tons, steam, mill.	
Columbia	Ry.	Tuolumne	Columbia Marble Co., San Francisco, Cal., 37 Brannan st.	Cap. \$75,000. Columbia, marble. Open pit, water, marble, mill.	
Cordelia	Ry.	Sonoma	Alex. McNaughton.	Cap. \$2,000. Haden Hill quarry, basalt. Open, horse, mill, 1,000 tons.	
"	"	"	L. R. Thompson, San Francisco, Cal., 28 Phelan Bldg.	Cap. \$50,000. Thompson's quarry, basalt. Open, 100,000 tons, steam, crusher. Wm. Nickel, supt.	
Day's Spur	Ry.	Fresno	Day Granite Co., San Francisco, Cal., 1000 Scott st.	Granite. 100,000 tons, steam. T. G. Day, supt.	
Edna	Ry.	San Luis Obispo	Consolidated Bituminous Rock Co., San Francisco, Cal., Room 113 Phelan Bldg.	A. C. Bassett, pres.; F. C. Lewis, secy.; Anglo-California Bank, Ltd., treas.; Jas. H. Swift, mgt.	Cap. stks. \$500,000. Bituminous. Open, 20,000 tons, hand.
Exeter	Ry.	Tulare	Rocky Point Granite Works.	Cap. stks. \$20,000. Rocky Point, granite, open, 50 tons, hand. D. B. Griffith, supt.	
Felton	Ry.	Santa Cruz	H. F. Holmes Lume Co., San Francisco, Cal., 321 Mission st.	H. F. Holmes, pres.; T. H. Hawkins, secy.; Wm. Jones, treas.; Cap. stks. \$750,000. Holmes. Open, 10,000 tons, hand, limekilns, 4,000 tons. Wm. Russell, supt.	
Gayola	Ry.	Santa Barbara	Gayola Mining Co., Los Angeles, Cal., N. W. cor. Temple and New High sts.	W. N. Usher, pres. and mgt.; L. F. Graves, secy.; W. E. Pile, treas.	Cap. stks. \$250,000. Gayola, bituminous rock. Open pit, 100,000 tons, steam, mill.
Hillsdale	Ry.	Santa Clara	Jacob Pfeiffer, Graystone Station, Cal.	Cap. \$10,000. Goodrich, sandstone. Slope, 2,000 tons, steam, hand.	
Inyo	Ry.	Inyo	Inyo Marble Co. of California, San Francisco, Cal., 17 Montgomery st.	Julius Jacobs, pres.; Geo. W. Jones, secy.; G. P. Kirby, treas. and mgt.	Cap. stks. \$200,000. Inyo, marble. Open pit, 2,000 tons, steam and water, marble. W. C. Pidge, supt.
King City	Ry.	Monterey	H. G. Livingstone.	San Lorenzo, bituminous rock. Slope, 100 tons, hand.	
Lime Kiln	Ry.	Tulare	Pogue & Sons, Lime Kiln, Cal.	Keweenaw Lime Works, marble and lime. Open pit, 1,000 tons, kiln, 1,000 tons.	
Lineda	Ry.	Placer	Byrne Bros.	Cap. \$20,000. Granite. Open pit, 20 tons, steam.	
"	"	"	T. L. Colley.	Cap. \$2,000. Granite. Open pit, 50 tons, horse.	
"	"	"	T. H. Jeter.	Cap. \$5,000. T. N. L. granite. Open pit, 2,000 tons, horse.	
Loomis	Ry.	Placer	Carlaw Bros., Sacramento, Cal., Tenth and R sts.	Cap. \$75,000. Carlaw, granite. Open pit, 2,000 tons, horse, gang sawmill. Geo. W. Turner, supt.	
"	"	"	M. J. Brady & Co., San Francisco, Cal., 34 Montgomery st.	Cap. stks. \$200,000. Loomis, granite. Open pit, 2,000 tons, steam. W. E. Cook, supt.	
"	"	"	Western Granite & Marble Co., San Jose, Cal., 20 N. First st.	B. D. Murphy, pres.; W. K. Beams, secy.; Commercial Bank, treas.; O. H. Barthart, mgt.	Cap. stks. \$100,000. Crystal Lake and Loomis, granite, 2,000 tons, steam, mill. J. V. Grant, supt.
Lordsburg	Ry.	Los Angeles	W. P. Rhoades, Los Angeles, Cal., 125 W. Second st.	Lordsburg, red sandstone. Hand.	
Los Angeles	Ry.	Los Angeles	Laurayen Granite Co., Los Angeles, Cal., cor. Reppena and Wilmington sts.	E. F. Orr, pres.; J. J. Craig, secy.; J. H. Craig, treas.; M. Craig, mgt.	Cap. stks. \$100,000. Laurayen, granite, open pit, 1,500 tons, horse. John H. Craig, supt.
Los Gatos	Ry.	Santa Clara	Los Gatos Lime Co., San Francisco, Cal., 34 Montgomery st.	J. Lemmon McCoy, pres.; W. S. Somers, secy.; George J. Whittier, treas.; John F. Piles, mgt. and supt.	Cap. stks. \$20,000. Los Gatos Lime Co.'s quarry, blue limestone. Open pit, 5,000 tons, hand, kiln, 2,500 tons.
Los Gatos	Ry.	Santa Clara	N. W. Griswold, San Francisco, Cal., 20 New Montgomery st.	Basalt. Open, 20 tons, hand, mill.	
Los Gatos	Ry.	Santa Clara	E. D. Bridges, P. O. Box 129.	Pine Grove, granite. Open, 100 tons, horse and hand, mill.	
Niles	Ry.	Alameda	Farwell Stone Co., San Francisco, Cal., 10 Pine st., Room 41.	Wm. Farwell, pres.; J. M. Mitchell, secy.; Bank of California, treas.; Cap. stks. \$100,000. Niles & Farwell, sandstone. Open, 100,000 tons, 1,000 and hand. Wm. Farwell, supt.	
Oakland	Ry.	Alameda	California Improvement Co., Inc., Broadway, Rooms 4 and 5.	W. H. Bailey, pres.; W. M. Bailey, secy. and treas.; J. H. Meyers, mgt.	Cap. stks. \$200,000. Laundry Farm, blue rock, 60,000 tons, steam, crusher. W. H. Masterman, supt.
"	"	"	Oakland Paving Co., 1042 Broadway.	J. H. Palmer, pres. and treas.; J. L. Burke, secy.	Cap. stks. \$300,000. Trap rock. Open, steam and hand, crusher. M. H. Eastman, supt.
Pomona	Ry.	Sonoma	Wilkinson & Kellas.	Cap. stks. \$1,000. Harper's, basalt. Open pit, 1,000 tons, hand.	
Petaluma	Ry.	Sonoma	John Lynch.	Basalt. Slope, 150 tons, hand. John Lynch, supt.	
Plymouth	Ry.	Amador	Amador Marble Co., Oakland, Cal., P. O. Box 285.	Timothy Hough, secy.; D. F. Phillips, treas.; J. J. Amador, mgt.	400 tons, water, mill. D. McVann, supt.

STONE, MARBLE, GRANITE AND ONYX (CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL. LOCATION OF PRINCIPAL OFFICE. NAMES OF OFFICERS. CAPITAL STOCK. NAME OF MINE OR QUARRY, KIND OF STONE. KIND OF MINE OR QUARRY. ANIMAL OUTLET IN TONS OF 2,000 POUNDS. KIND OF POWER USED. STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Raymond Ry., 692.		Fresno	Day Granite Co., San Francisco, Cal., 1000 Scott St.	Day, granite. Open, 8,000 tons; steam.
"	"	"	A. McLennan, San Francisco, Cal., 1616 Jackson St.	Cap. \$20,000. McLennan's, granite. Slope; steam.
"	"	"	J. F. Milne & Co., Box 61. J. F. Milne, mgr.	Cap. stk. \$2,500. Milne, granite. Slope; hand.
"	"	"	Raymond Granite Co., James Mildrum, prest.; John Bowrie, secy.; J. Hutcheon, treas.; Alex. Mann, mgr. and supt.	Mann's, granite. 150,000 tons; hand.
Riverside, San Bernardino Ry., 692.		"	G. W. Clark, Box 301. Cap. \$10,000. Casa Blanca, granite.	Open pit and slope, 20,000 tons; horse and hand. G. W. Clark, supt.
"	"	"	Evans & Middleton, Box 737. Cap. stk. \$14,500. Arlington, granite.	Open pit, 1,700 tons; hand; mill.
Rocklin, Ry., 692.		Placer	Copp & Waters. Copp & Waters, white granite.	Open pit, 1,500 tons; steam.
"	"	"	Degan & Brady, San Francisco, Cal., 423 Eleventh St.	Cap. \$150,000. Degan & Brady's, granite. Open pit, 200,000 tons; steam; mill. P. Cloon, supt.
"	"	"	Hytner & Wickman, Box 24. Granite.	Open pit, horse.
"	"	"	Rocklin Granite Co., Oakland, Cal. I. L. Delano, prest. and mgr.; Ernest Hough, secy. and treas.	Cap. stk. \$50,000. Rocklin, granite. Open pit, 4,000 tons; steam; mill. I. L. Delano, supt.
San Diego Ry., 649.		San Diego	Clark-Rockfellow Granite Co., 1234 D St. E. F. Rockfellow, prest. and secy.; C. E. Clark, mgr.	Cap. stk. \$10,000. Granite. Open pit; steam; polishing; mill.
"	"	"	Excelsior Paying Co., Consolidated Nat. Bank Bldg. J. W. Thompson, prest.; Gratz K. Brown, secy. and mgr.; Consolidated Nat. Bank, treas.	Cap. stk. \$50,000. Rockville, porphyry. Open, 20,000 tons; steam, crusher. Chas. M. Hough, supt.
San Luis Obispo, San Luis Obispo Ry., 551.		"	San Luis Obispo Bituminous Rock Co., Los Angeles, Cal., 214 S. Broadway. W. J. Brodrick, prest.; G. A. Robinson, secy.; First Nat. Bank of Los Angeles, treas.; J. A. Fairchild, mgr.	Cap. stk. \$5,000,000. Bituminous rock. Open, 20,000 tons; hand.
Santa Cruz Ry., 551, 692.		Santa Cruz	Consolidated Bituminous Rock Co., San Francisco, Cal., Room 143 Phelan Bldg. A. C. Bassett, prest.; F. C. Lewis, secy.; Anglo-Californian Bank, Ltd., treas.; Jas. H. Swift, mgr.	Cap. stk. \$200,000. Bituminous. Open, 20,000 tons; hand.
"	"	"	X. P. Perline Paying and Construction Co., San Francisco, Cal., 116 Phelan Bldg. X. P. Perline, prest.; R. C. Mattingly, secy.; Pacific Bank, treas.; Frank Walker, mgr.	Cap. stk. \$100,000. Enright Deposit, bituminous rock. Open pit and slope, 5,200 tons; hand. J. A. Enright, supt.
Santa Rosa Ry., Annabel 692.		Sonoma	C. G. Borg & H. C. Patridge, San Francisco, Cal., 302 Montgomery St.	Annabel, basalt block. Open pit, 20,000 tons; hand. C. G. Borg, supt.
"	"	"	City Street Improvement Co., San Francisco, Cal., Merchants' Exchange Bldg., Room 32. J. W. McDonald, prest. and mgr.; W. E. Dennison, secy.	McDonald, basalt block. Open pit, 300 tons; hand; mill. Thos. O'Connor, supt.
"	"	"	T. A. Ducharm, Cap. \$24,758. Ducharm, granite.	Open pit; hand; mill. T. A. Ducharm, supt.
"	"	"	J. W. McDonald, San Francisco, Cal., 234 Montgomery St. Cap. \$100,000. Basalt rock.	Open pit, 700,000 tons; hand. Thos. O'Connor, supt.
Sonoma Ry., 651.		Sonoma	H. C. Manuel. El Campo, stone.	Open pit, horse and hand, mill. Harvey Manuel, supt.
"	"	"	J. W. McDonald, San Francisco, Cal., 234 Montgomery St. Cap. \$100,000. Basalt rock.	Open 430,000 tons, hand. A. Pinell, supt.
South Riverside, San Bernardino Ry., 26.		"	Porphyry Paying Co., Los Angeles, Cal., 41 Baker Block. J. O. Wheeler, prest.; H. A. Palmer, secy.; Farmers & Merchants' Bank, treas.; Gratz K. Brown, mgr.	Cap. stk. \$100,000. Porphyry. Open, 20,000 tons; steam, crushers. Frank McBride, supt.
Softer Creek, Ry., June 692.		Amador	Carrara Marble Quarry of Amador Co., San Francisco, Cal., 506 Battery St. Paul Barbieri, prest.; Charles Dondero, secy.; Bank of California, treas.	Cap. stk. \$500,000. Carrara, marble. Open, 2,500 tons; hand, mill.
Tenaculita Sta., Ry., 26.		San Diego	C. N. Fernald & Son. Cap. \$4,000. Granite.	200 tons; hand.
Victor Ry., 692.		San Bernardino	Conrad Schoeyer, Los Angeles, Cal., 227 W. First St. Cap. \$20,000. Granite and marble.	Open pit, 17,640 tons, hand, marble.
"	"	"	Verde Antique Marble Co., National City, Cal., National av. and Tenth St. Verde Antique, marble.	Open pit, hand, marble null. Geo. K. Phillips, supt.

SEE ALSO SUPPLEMENTARY LIST

COLORADO

ASPHALTUM

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Elizabethtown Rio Blanco Ry. Fruita 215.	R. Fovey and others. Cap. \$50,000. Tunnel. R. Fovey, supt.

CEMENT

LOCATION OF MINE, OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF PRODUCT, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, CEMENT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Colorado City Ry. 26, 215.	The Stewart Shreve & Cement Co., Colorado Springs, Colo., 116 N. Water st., John C. H. prest., J. E. McIntyre, secy. G. H. Stewart, gen. mgt. and secy. Cap. \$1,500,000. Cement, 3,000 tons; steam, water, mill, 3,000 tons.

COAL, ANTHRACITE

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL PREPARATORS, WASHERS, COAL OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Anthracite Gunnison Ry. Crested Butte 215.	Colorado Fuel Co., Denver, Colo., 704 Boston Bldg., J. C. Osgood, prest., D. C. Bennett, secy. A. C. Cass, treas., J. A. Kober, mgt. Cap. \$1,800,000. Anthracite No. 1. Tunnel, slope, 1,200 tons; steam and horse, haul, 1,000 tons.
La Veta Ry. 215.	Huerfano John Herbin, local. Tunnel and shaft, haul.

COAL, BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL PREPARATORS, WASHERS, COAL OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Baldwin Ry. 776.	Union Pacific Coal Co., Omaha, Neb., North and Lathams sts., G. W. McArthur, gen. supt., Cap. \$1,200,000. Baldwin. Shaft, 11,771 tons; steam, John Webb, supt.
Berwind Ry. 215.	Colorado Coal & Iron Co., Pueblo, Colo., Edward J. Bergina, prest., Thomas F. H. Curtis, secy. and treas., F. M. Steek, gen. mgt., Cap. \$1,000,000. F. M. Steek, supt. Slope, 150,000 tons; steam, David Allen, supt.
Boulder Ry. 776.	Allen & Bond, local. Slope, 1,000 tons; steam, H. W. Allen, supt.
"	" The Boulder Coal & Fuel Co., Thomas C. Johnson, prest., J. B. Hickey, secy., James C. Hawkins, treas., T. C. Johnson, mgt., Slope, 90,000 tons.
Cantfield Ry. 776.	Boulder Charles Dale, Cap. \$500. Standard. Shaft, 5,000 tons; steam.
Canon City Ry. 26, 215, 776.	United Coal Co., Denver, Colo., 521 Third & Chamber Bldg., James Carmon, prest., C. E. Spencer, secy., J. J. Thomas, mgt., Cap. \$1,000,000. Shaft, drift, steam, John Simpson, supt.
Carbild Ry. 26.	Grand River Coal & Coke Co., Colorado Springs, Colo., J. B. Wheeler, prest., S. S. Latta, secy., W. S. Cherry, v. prest. and gen. mgt., Cap. \$1,000,000. Spring, 100,000 tons; Marion and Sunshine. Tunnel and slope, 200,000 tons; steam, 200,000 tons; capacity 75,000 tons. J. Anderson, supt.
Chandler Ry. 26, 215.	The Western Fuel Co., Pueblo, Colo., 115 C. st., J. H. Bennett, prest., G. J. Dunbar, secy. and treas., J. A. Joy, mgt., Cap. \$1,000,000. Chandler. Shaft, 100,000 tons; steam, G. A. Shedd, supt.
Coal Creek Ry. 215.	Colorado Coal & Iron Co., Pueblo, Colo., Edward J. Bergina, prest., Thomas F. H. Curtis, secy. and treas., F. M. Steek, gen. mgt., Cap. \$1,000,000. Coal Creek. Slope, 200,000 tons; steam, Robert Milliken, supt.
Coal Park Ry. Lafayette ss.	Baker Coal Mining Co., Denver, Colo., 1675 Champa st., E. B. Light, prest., Ben Macdonald, secy. and treas., D. W. Davis, mgt., Cap. \$1,000,000. Baker. Slope, 25,000 tons; steam, Thos. Van der, supt.
Conditge Ry. Newcastle 26, 215.	The Colorado Fuel Co., Denver, Colo., 704 Boston Bldg., J. C. Osgood, prest., D. C. Bennett, secy. A. C. Cass, treas., J. A. Kober, mgt., Cap. \$1,800,000. Conditge No. 5. Tunnel, slope, 1,200 tons; steam, horse, Paul Blount, supt.
Cortez Ry. Durango 215.	George F. Houser, local. Giant. Tunnel, slope, 50 tons; horse, haul, S. J. Houser, supt.
Crested Butte Ry. 215.	Colorado Coal & Iron Co., Pueblo, Colo., Edward J. Bergina, prest., Thomas F. H. Curtis, secy. and treas., F. M. Steek, gen. mgt., Cap. \$1,000,000. Crested Butte No. 1. Slope, 200,000 tons; steam, 150,000 tons; 50,000 tons. Wm. Grant, supt.

COAL BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
De Beque Ry., 215.		Mesa	Shirley & Hinds.	Cap. \$10,000. De Beque and Jenkins. Tunnel; hand (developing).
Delta Ry., 215.		Delta	Rollins Bros. (local).	Cap. \$3,000. Rollins. Tunnel; hand.
"	"	"	E. B. Wilson, Montrose, Colo.	Cap. \$2,000. Delta. Tunnel; hand (developing).
"	"	"	J. J. Winton & J. D. Roberts, Delta, Colo.	Cap. \$20,000. Tunnel, 2,000 tons; horse. J. J. Winton, supt.
Durango Ry., 215.		La Plata	Champion Coal Co., Benjamin Ritter, prest., M. J. McCloskey, secy.; Mr. Boyle, treas.; A. Shore, mgr.	Cap. stk. \$300,000. Champion. Tunnel, steam (developing). Benjamin Ritter, supt.
"	"	"	San Juan Coal Co., J. E. Ward, prest., M. L. Peck, secy. and treas.	Cap. stk. \$100,000. San Juan. Slope, 40,000 tons; gravity. John Kolz, supt.
"	"	"	San Juan Smelting Co.	Mine for own use.
"	"	"	Cte Coal & Coke Co., H. J. Ross, prest.; L. C. Jakway, secy., treas. and mgr.	Cap. stk. \$150,000. Cop- phaser. Tunnel, 20,000 tons; horse. J. A. Coppinger, supt.
Engle Ry., El Moro 215 & 217.		Las Animas	Colorado Coal & Iron Co., Pueblo, Colo., Edward J. Berwind, prest.; Thomas E. H. Curtis, secy. and treas.; E. M. Steek, gen. mgr.	Cap. stk. \$1,000,000. El Moro No. 1. Slope, 300,000 tons; steam. 250 coke ovens, 20,000 tons; gravity. Pollock, supt.
Erie Ry., 776.		Weld	Boulder Valley Coal Co., John McKissick, prest., J. M. Shrode, secy.; John G. McCartney, treas. and mgr.	Cap. \$15,000. Boulder Valley. Shaft, 15,000 tons; steam.
"	"	"	North-Western Coal Mining Co., Denver, Colo., Chas. E. Quincy, prest.; W. H. Nicholson, supt.; Alfred J. Vivian, treas. and mgr.	Cap. stk. \$100,000. Boulder Valley. Shaft, 35,500 tons; steam. Phelix MacKenzie, supt.
"	"	"	The United Coal Co., Denver, Colo., 524 Ernest & Crammer Bldg., James Cannon jr., prest., C. L. Spencer, secy., J. J. Thomas, mgr.	Cap. stk. \$1,000,000. Shaft, drift; steam. John Simpson, supt.
Forbes Ry., 215, 776.		Las Animas	The Trinidad Fuel Co., Trinidad, Colo., Geo. M. Forbes, prest. and mgr.; James L. Bridge, secy. and treas.	Cap. \$1,000,000. Monarch. Tunnel, 120,000 tons; horse. Chas. S. Wood, supt.
Golden Ry., 776.		Jefferson	J. B. & Wm. Church, Denver, Colo., 819 Seventeenth st.	Cap. \$10,000. Star. Shaft, 4,572 tons; steam. Ben- jamin Rowe, supt.
"	"	"	Golden Cooperative Co.	Cap. \$7,000. Cooperative. Shaft, 7,500 tons; steam; horse. Geo. H. Goldsworthy, mgr. and supt.
"	"	"	Golden Pressed & Fire Brick Co., Denver, Colo., 819 Seventeenth st., J. B. Church, prest., treas. and mgr.; Benjamin Rowe, secy.	Cap. stk. \$300,000. Star. Shaft, 1,172 tons; steam. Daniel Williams, supt.
"	"	"	White Ash Coal Mining Co., E. E. Goodrich, prest., Geo. M. Butler, secy.; W. N. Whitehead, treas.; F. G. Butler, mgr.	Cap. stk. \$300,000. Loveland, White Ash, Murphy. Shaft, 250,000 tons; steam. Evan Jones, supt.
Grand Junction Ry., 26, 215, 626.		Mesa	W. T. Carpenter.	Cap. \$100,000. Book Cliff. Tunnel, 10,000 tons; horse and gravity.
Gray Creek, Las Animas P. O., Trinidad Ry., 776.			The Gray Creek Coal & Coking Co., Trinidad, Colo., D. A. Chappell, prest. and mgr.; S. S. Murphy, secy.; W. B. Cunningham, treas.	Cap. stk. \$200,000. Gray Creek. Tunnel, steam; horse, 2 coke ovens, Jno. Cameron, supt.
Gunnison Ry., 215.		Gunnison	Gunnison Coal & Iron Co., W. Street, prest., A. J. Reily, secy. and treas.; C. T. Siles, mgr.	Cap. stk. \$5,000,000. Castle Mountain. Tunnel; horse.
Hastings Ry., 26, 776.		Las Animas	Colorado Coke Co., Trinidad, Colo., 20 E. Main st., A. H. Danforth, prest.; D. A. Chappell, secy. and treas.; John Cameron, mgr.	Cap. stk. \$100,000. Coke ovens, 35,000 tons; steam; horse. John Cameron, supt.
"	"	"	The Victoria Coal Co., Trinidad, Colo., 20 E. Main st., Delos A. Chappell, prest. and mgr.; Sanford S. Murphy, secy.; W. B. Cunningham, treas.	Cap. stk. \$1,000,000. Victor. Tunnel, 250,000 tons; steam; horse, 100 coke ovens, 40,000 tons. John Cameron, supt.
Hebron Ry., Dillon 215, 776, 80 hubs.		Jarvis	Rach Bros. (local).	Little Grizzly. Shaft, 300 tons; horse.
King Ry., Como 776.		Park	Union Pacific Coal Co., Omaha, Neb., Ninth and Farnam sts., G. W. Megeath, gen. supt.; Geo. L. Black, asst. supt.	Cap. stk. \$200,000,000. Como, Nos. 5 and 6. Slope, 47,592 tons; steam. Thomas Ramsey, supt.
Lafayette Ry., 776.		Boulder	Field & Hopkins.	Cap. \$60,000. Gladstone. Shaft, 60,000 tons; steam. Wm. Field, supt.
"	"	"	The United Coal Co., Denver, Colo., 524 Ernest & Crammer Bldg., James Cannon jr., prest., C. L. Spencer, secy., J. J. Thomas, mgr.	Cap. stk. \$1,000,000. Shaft, drift; steam. John Simpson, supt.
La Veta Ry., 215.		Huerfano	W. H. Adamson.	Cap. \$5,000. Indian Creek. Tunnel, 5,000 tons; horse. E. Frankenberg, supt.
Louisville Ry., 776.		Boulder	Apex Coal Mining Co., Denver, Colo., 1631 Champ st., L. E. Andrews, prest.; John Connell, secy.; John Chamber, treas.	Cap. stk. \$100,000. Apex. Shaft, 70,000 tons; steam.
"	"	"	Apex Coal Mining Co., Boulder, Colo., M. V. Johnson, prop.	Cap. \$50,000. Apex. Shaft, 20,000 tons; steam. Thomas Jones, supt.
"	"	"	The Citizens Coal & Coke Co., Denver, Colo., Thomas Trumbull, prest.; Thomas E. Bassett, secy.	Shaft, 30,000 tons; steam.
"	"	"	The Hecla Coal Mining Co., J. H. Hood, prest. and mgr.; Wm. Cawdry, secy.; J. P. Donby, treas.	Cap. stk. \$100,000. Hecla. Shaft, 3,000 tons; steam. J. Hood, supt.
"	"	"	The United Coal Co., Denver, Colo., 524 Ernest & Crammer Bldg., James Cannon jr., prest., C. L. Spencer, secy., J. J. Thomas, mgr.	Cap. stk. \$1,000,000. Shaft, drift; steam. John Simpson, supt.
Marble Ry., Elk Mountain 26, 215.		Gunnison	Pacific Coal & Coke Co., Denver, Colo., 819 Boston Bldg., Orlando Metcalf, prest.; Wm. F. Reed, secy. and treas.	Cap. stk. \$1,000,000. Tunnel, electricity (developing).

COAL—BITUMINOUS—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 TONS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	COUNTY		
Meeker	Rio Blanco	F. W. Fairfield & Sons, Meeker, Colo.	Peacock. Tunnel.
Ry. New Castle 215.			
"	"	Harry Golden.	Cap. \$5,000. Meeker. Tunnel, 1,200 tons; horse and hand.
Morrison	Jefferson	B. Prince & Son.	Mount Carbon. Slope, 15,000 tons; horse. B. Prince, supt.
Ry. Mt. Carbon 776.			
New Castle	Garfield	Grand River Coal & Coke Co., Colorado Springs, Colo.	J. B. Wheeler, pres.; S. S. Earle, secy.; W. S. Cherry, v. pres. and gen. mgr. Cap. stk. \$2,000,000. New Castle. Shaft, slope, tunnel, 150,000 tons; steam. F. Corvelli, supt.
Ry. 26, 215.			
Phonia	Delta	Paonia Coal Co., W. T. Hawkey, pres.; E. C. Ward, secy.; W. A. Clark, treas.; Wesley Ault, mgr.	Tunnel; horse developing.
Ry. Delta 215.			
Pictou	Huerfano	The Colorado Fuel Co., Denver, Colo., 501 Boston Bldg.	J. C. Osgood, pres.; D. C. Beaman, secy.; A. C. Cass, treas.; J. A. Kelder, mgr. Cap. stk. \$5,000,000. Pictou No. 6. Slope, 77,161 tons; steam, horse, Thomas Lawler, supt.
Ry. 215, 776.			
Platte Canon	Jefferson	T. L. Morgan (local).	Shaft.
Ry. 776.			
Porter	La Plata	Porter Coal Co., Denver, Colo., 501 Boston Bldg.	J. A. Porter, pres.; J. H. Pullen, secy. and treas.; S. E. Herr, mgr. Cap. stk. \$600,000. Porter. Shaft, 65,000 tons; steam. Thomas Mason, supt.
P.O. Durango Ry. 215.			
Rico	Dolores	Broughton & Derby (local).	Pasadena. Tunnel, 1,000 tons; horse and hand. J. Richards, supt.
Ry. 928.			
Ridgway	Ouray	J. O. Gorman.	Cap. \$1,500. Tunnel; steam developing.
Ry. 215.			
Rouse	Huerfano	The Colorado Fuel Co., Denver, Colo., 501 Boston Bldg.	J. C. Osgood, pres.; D. C. Beaman, secy.; A. C. Cass, treas.; J. A. Kelder, mgr. Cap. stk. \$5,000,000. Rouse No. 3. Slope, 236,157 tons; steam and horse. W. C. Thompson, supt.
Ry. 215, 776.			
Santa Clara	Huerfano	Colorado Coal & Iron Co., Pueblo, Colo.	Edward J. Berwind, pres.; Thos. F. H. Curtis, secy. and treas.; E. M. Stock, gen. mgr. Cap. stk. \$10,000,000. Santa Clara. Shaft, 80,000 tons; steam.
Ry. 215, 776.			
Slater	Routt	Robert McIntosh (local).	Tunnel, 50 tons; hand.
Ry. Rawlins 776.			
Sopris	Las Animas	The Colorado Fuel Co., Denver, Colo., 501 Boston Bldg.	J. C. Osgood, pres.; D. C. Beaman, secy.; A. C. Cass, treas.; J. A. Kelder, mgr. Cap. stk. \$5,000,000. Sopris No. 4. Slope, 276,770 tons; steam, horse and coke ovens, 11,700 tons. W. J. Murray, supt.
Ry. 215, 776.			
Tindale	Jefferson	Denver Coal Co., Ltd., Denver, Colo., 501 and 502 Boston Bldg.	T. W. Tindall, chairman; A. B. Seed, secy.; Sam'l Newhouse, mgr. Cap. stk. \$2,000,000. Shaft, steam developing. Jas. B. Miller, supt.
Ry. Easton 776.			
Tintal	Las Animas	F. T. Butler (local).	Tunnel, 5,000 tons; horse.
Ry. 26, 215, 776.			
"	"	George Jeffries.	Bloom. Tunnel, 6,000 tons; horse.
"	"	The United Coal Co., Denver, Colo., 501 First & Chalmers Bldg.	James Cannon jr., pres.; C. L. Spencer, secy.; J. J. Thomas, mgr. Cap. stk. \$1,000,000. Shaft, drift, steam. John Simpson, supt.
Walsenburg	Huerfano	Colorado Coal & Iron Co., Pueblo, Colo.	Edward J. Berwind, pres.; Thos. F. H. Curtis, secy. and treas.; E. M. Stock, gen. mgr. Cap. stk. \$10,000,000. Canon, slope, 29,000 tons; Robinson, shaft, 170,000 tons; Walsen, slope, 60,000 tons; steam. Peter Cannon, supt.
Ry. 215.			
Williamsburg	Fremont	The United Coal Co., Denver, Colo., 501 First & Chalmers Bldg.	James Cannon jr., pres.; C. L. Spencer, secy.; J. J. Thomas, mgr. Cap. stk. \$1,000,000. Shaft, drift, steam. John Simpson, supt.
Ry. Florence 215.			

COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 TONS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	COUNTY		
Garrison	Gunnison	J. E. Grant, Denver, Colo.	Shaft, 9,000 tons; steam.
Ry. 215.			
Salida	Chaffee	Soldado Copper Co., Denver, Colo., gen. Ed. met. and Seventeenth sts.	E. R. Finckson, pres.; J. W. O'Connell, secy. and treas. Cap. stk. \$200,000. Salida. Tunnel, 1,000 tons; hand.
Ry. Bellevue 215.			

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 TONS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	COUNTY		
Alder	Saguache	C. P. Edmonds.	North Star, gold, silver, lead. Shaft, battery, hand developing.
Ry. Round Hill 215.			
"	"	Mammoth Mining Co., Poncha Springs, Colo.	Frank M. Barnes, mgr. Cap. \$90,000. Mammoth, gold, silver, lead. Tunnel, tree, steam developing. F. M. Barnes, supt.
"	"	Amos Slater, Salida, Colo.	Cap. \$8,000. Little Golde Group, gold, silver, lead. Shaft, tunnel, tree, hand.
Alicante	Lake	Alicante Mining Co., Limas, Colo.	Alicante, gold, silver, lead. Shaft, tunnel, 5,000 tons; battery.
P.O. Limas Ry. 215.			

GOLD AND SILVER—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Atlanta		Lake	Joe Fischer & John Buehr, Leadville, Colo., 3143 Sixth St. Cap. \$20,000. Ground Hog, gold, silver, lead	
(Continued.)			Shaft, tunnel, 1,000 tons; free; hand. Joe Fischer, supt.	
"		"	Gold Field Mining Co., Leadville, Colo. Felix Vogel, pres., Gold Field, gold, silver, lead, 1,000 tons;	
"		"	refractory, steam.	
"		"	T. & J. Shelton & J. Johnson, Leadville, Colo., 805 W. Elm st. T. Shelton, pres.; J. Shelton, secy. and treas.;	
"		"	J. Johnson, mgr. and supt. Hamilton Nos. 1 and 2, gold, silver, lead. Tunnel, 60 tons; refractory, free;	
"		"	hand.	
"		"	Walter Scott Mining & Milling Co., Colorado Springs, Colo., 25 Hageman Block. M. L. Chapman, pres.;	
"		"	A. E. Carlton, secy., A. B. Hockman, treas.; J. H. McMaster, mgr. Cap. stk. \$500,000. Walter Scott,	
"		"	gold. Shaft, 5,000 tons; free; steam, 20 stamps. R. H. Milner, supt.	
"		"	G. C. Wortman, Climax, Colo. John Reed, gold, silver, lead. Shaft; refractory; horse, electricity.	
Alma		Park	Green Mountain Mining Co., Chicago, Ill., Unity Bldg. John L. Beveridge, pres.; Jos. R. Putnam, secy.;	
Ry., London 775.			H. N. Hubbard, treas.; R. M. Whipple, mgr. Cap. stk. \$1,000,000. Gold. Shaft (developing). Whit-	
"		"	H. Grise, supt.	
"		"	Hall & Brunk, G. W. Brunk, pres. and mgr.; John T. Brownlow, secy.; Assaria Hale, treas. Cap. stk.	
"		"	\$1,000,000. Dolly Varden, silver, gold. Shaft, tunnel, 800 tons; refractory; steam; hand.	
"		"	The London Mining & Milling Co., Thomas Kiddie, mgr. and supt. London, Paris, Hard to Beat, and	
"		"	others, gold, silver, lead. Tunnel, 1,500 tons; free and refractory; steam, 20 stamps.	
"		"	Maisotte Gold Mining Co., Denver, Colo., No. 505 Mining Exchange Bldg. W. F. Kendrick, pres.; A. J.	
"		"	King, secy., P. M. Kendrick, treas.; James Moynahan, mgr. Cap. stk. \$2,000,000. 10 mines, gold and	
"		"	silver. Shafts and tunnels, free and refractory; electricity and compressed air (developing).	
"		"	James Moynahan, Phillips, gold, silver. Shaft; hand.	
"		"	David Murphy, Baltic, gold, silver. Refractory, horse; 400 tons.	
"		"	The Orphan Boy Hill Cons. Mining Co., James Moynahan, pres. and mgr.; Fremont Woodruff, secy.;	
"		"	John M. Walker, treas. Cap. stk. \$1,000,000. Orphan Boy, Senate, Evening Star, gold, silver. Tunnel,	
"		"	shaft, 10,000 tons; refractory, steam. James Mullin, supt.	
"		"	Phillips Mining Co., St. Louis, Mo., 416 N. Second st. Isaac M. Mason, pres.; George W. Boswell, secy.;	
"		"	H. H. Merriek, treas.; F. W. Buselman, mgr. Cap. stk. \$200,000. Phillips, gold, silver. Tunnel, 14,500	
"		"	tons; refractory; steam, 50 stamps. J. H. Macdonald, supt.	
"		"	Francis H. Weeks, Moose, silver. Tunnel; refractory. John M. Fritz, supt. and mgr.	
"		"	The Woodmass of Alston Mining Co., Alfred H. Wilson, pres., Randall W. Wilson, v-pres. and mgr.	
"		"	Cap. stk. \$300,000. Great West, gold, silver, lead. Shaft, tunnel; free; horse. A. H. Wilson, supt.	
Amethyst		Saguache	Park Regent Consolidated Mining Co., Creede, Colo., O. P. Poole, pres.; A. D. Davis, secy. and treas.;	
Ry., Jintown 215.			E. H. Crawford, mgr. Cap. stk. \$1,000,000. Park Regent, silver, lead. Steam. Eli Barrett, supt.	
Ashcroft		Pitkin	Fitzpatrick & O'Hagan, Hendricks, silver, lead, copper. Tunnel; refractory; hand. J. F. Fitzpatrick,	
Ry., Aspen 26, 215 & 216.			supt.	
"		"	W. P. Green & J. Crowther, Elmira, silver, copper. Shaft, tunnel. W. P. Green, supt.	
"		"	Calvin Miller, Cap. \$50,000. Rose, gold, silver. Shaft, 50 tons; hand (developing).	
"		"	The Panorama Mining & Prospecting Co., J. M. Leahy, pres., Fanny Fogg, secy.; J. J. Leahy, treas.; W.	
"		"	H. Fogg, mgr. Panorama, silver, lead. Tunnel, refractory; hand. J. M. Leahy, supt.	
Aspen		Pitkin	Alta Argent Mining Co., Denver, Colo., Nos. 410 and 411 Boston Bldg. A. W. Powell, pres. and mgr.;	
Ry. 26, 215.			Jerome B. Wheeler, v-pres.; Louis H. Jackson, secy. and treas. Cap. stk. \$2,000,000. Alta Argent,	
"		"	silver. Shaft; refractory, steam and electricity. W. McMullan, supt.	
"		"	The Argentum-Jundata Mining Co., Colorado Springs, Colo. J. J. Hageman, pres., H. P. Lillibridge,	
"		"	secy. and treas.; R. J. Bolles, v-pres.; C. E. Palmer, mgr. Silver (developing).	
"		"	The Aspen Contact Mining Co., Colorado Springs, Colo. J. J. Hageman, pres., H. P. Lillibridge, secy.	
"		"	and treas.; D. M. Hyman, v-pres.; W. E. Newberry, supt. Silver (developing).	
"		"	Aspen Mining Co., Aspen, silver. Shaft, 40,000 tons; refractory; steam, electricity. Henry Paul, supt.	
"		"	Aspen Mining & Smelting Co., New York City, 54 Wall st. J. B. Wheeler, pres.; J. L. Tilton, secy.;	
"		"	Samuel S. Erie, treas.; Fred G. Bulkley, mgr. Cap. stk. \$2,000,000. Silver and lead. Shafts and tun-	
"		"	nels, 25,000 tons, electricity.	
"		"	Best Friend Mining Co., John H. Greener, pres.; P. K. Mackin, secy. and treas. Best Friend, Sam	
"		"	Houston, gold, silver. Shaft, 1,000 tons; refractory, steam.	
"		"	The Bi-Metallic Mining & Milling Co., Colorado Springs, Colo. J. J. Hageman, pres., H. P. Lillibridge,	
"		"	secy. and treas.; D. M. Hyman, v-pres.; W. E. Newberry, supt. Silver (developing).	
"		"	Della S. Consolidated Mining Co., David C. Brown, pres.; Theo. E. Little, secy.; H. P. Cowenhoven,	
"		"	treas.; D. W. Branton, mgr. Cap. stk. \$1,000,000. Silver. Shaft, tunnel; refractory, steam, electricity.	
"		"	Samuel Leonard, supt.	
"		"	Charles F. Drake Mining Co., Denver, Colo., Room 10 Hughes Bldg. Charles F. Drake, pres.; S. W.	
"		"	Keene, v-pres.; W. R. Roof, secy. Cap. stk. \$1,000,000. Surprise, silver, lead. Tunnel, shaft, free,	
"		"	electricity.	
"		"	E. C. Ewing & Co., Lena, silver. Shaft, tunnel, refractory.	
"		"	Highland Mining & Tunnel Co., 300 West Hopkins st. Alois Thoman, pres.; John B. Whitehead, secy.;	
"		"	Charles Thoman, treas.; James W. Magee, mgr. and supt. Cap. stk. \$1,000,000. Wilton Belle, No. 2,	
"		"	Highland View, gold, silver, copper. Tunnel, refractory.	
"		"	Italian Mountain Mining Co., Frank Stewart, pres. and mgr.; C. F. Serogus, secy.; E. C. Stinson, treas.;	
"		"	Cap. stk. \$2,000,000. Homestake, silver, lead. Shaft, free; horse. D. J. Stewart jr., supt.	
"		"	The Mollie Gibson Consolidated Mining & Milling Co., Colorado Springs, Colo. J. J. Hageman, pres.;	
"		"	H. P. Lillibridge, secy. and treas.; R. J. Bolles, v-pres.; C. E. Palmer, mgr. Mollie Gibson, silver.	

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAY, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Aspen		Pitkin	New York Tunnel Mining and Transportation Co., Chicago, Ill., 4 Sherman St., Frank Drake, pres.; W. L. Wright, secy.; Gilbert Montague, treas. Cap. stk. \$2,500,000. New York, silver. Tunnel, steam.	
"		"	Ophir Belle Mining Co., Room 12 Aspen Block, J. E. Freeman, pres. and mgr.; E. A. Shepard, secy.; W. T. Miltenberger, treas. Cap. stk. \$1,000,000. Ophir Bell Group, silver. Tunnel (developing); S. F. Hunt, supt.	
"		"	The Roaring Fork Mining Co., Fred G. Bulkeley, pres. and mgr.; W. P. Smith, secy.; A. P. Mackey, treas. Cap. stk. \$3,000,000. Silver, shaft, drift, steam (developing).	
"		"	Sierra La Plata Mining Co., 100 Mill St., cor. Main, H. B. Gillespie, pres.; Charles F. Saunders, secy.; treas. and mgr. Cap. stk. \$1,000,000. Woody Group, silver. (Developing).	
"		"	The Tenderfoot Consolidated Mining Co., W. W. Cady, pres.; Henry Clark, secy. and treas. Cap. stk. \$2,000,000. Tenderfoot, Lillian Gray and others, silver. Tunnel (developing).	
"		"	Woody Creek Mining Co., F. C. Leppanham, pres.; A. Thomas, secy. and treas.; J. J. Yeckel, mgr. and supt. Cap. stk. \$1,000,000. Leadville, silver, lead. Shaft, tunnel, refractory. steam.	
Bald Mountain Ry. Black Hawk 776.		Gilpin	Rowena Mining Co., St. Louis, Mo., 920 North Main St., H. Reinsteider, pres.; Henry Leschen, secy. and mgr.; C. E. Stevens, mgr. and supt. Cap. stk. \$300,000. Ivanhoe, Rowena, Rebecca, gold, lead. Shaft, 3,200 tons, free, refractory; steam.	
"		"	The San Juan Mining & Milling Co., Denver, Colo., Room 36 Masonic Temple, A. J. Severance, pres. Cap. stk. \$1,000,000. San Juan, gold, silver. Shaft, 3,000 tons, steam. W. A. McNeill, supt.	
Ballarat		Boulder (P. O. Jamestown) Ry. Boulder 776.	Ballarat Smuggler Mining Co., Denver, Colo., Room 7, Jacobson Block, W. E. Haxton, pres.; J. M. Houghton, secy. and treas. Cap. stk. \$300,000. Ballarat Smuggler, gold, silver. Shaft, 300 tons, refractory; steam, 20 stamps. George M. Freeman, supt.	
Barry		El Paso Ry. Florissant 26 (18 miles).	Alamo Mining Co., Colorado Springs, Colo., 116 East Pike's Peak ay., F. E. Robinson, pres.; E. W. McNeal, secy.; H. E. Bassett, treas.; L. Adamson, mgr. and supt. Cap. stk. \$1,000,000. Little Huckle Berry, White Elephant and others, gold. Shaft, tunnel, open, 3,000 tons, refractory, horse.	
"		"	Anaconda Mining & Milling Co., Denver, Colo., 158 W. 4th St., C. T. Harkinson, pres.; H. W. Barry, secy. and mgr.; S. L. Altman, treas. Cap. stk. \$1,250,000. Excelsior, Great Vein, Anaconda and others, open pit, shaft, tunnel, 15,000 tons, refractory, free, electricity, steam, 15 stamps. E. A. Reynolds, supt.	
"		"	Blue Bell Mining, Milling and Prospecting Co., Colorado Springs, Colo., 116 East Pike's Peak ay., Joseph E. Handberg, pres. and mgr.; John S. Lentz, secy.; George W. Carr, treas. Cap. stk. \$300,000. Blue Bell, Blanche, R. F. Lee and Hardpan, gold, silver, copper, lead. Shaft and tunnel, refractory, free, horse, Robert McLean, supt.	
"		"	The Gold Eagle Mining & Milling Co., Colorado Springs, Colo., Daniel Gregg, pres.; W. H. Fairall, secy.; George Foster, treas. Cap. stk. \$1,000,000. Golden Eagle, gold. Tunnel free, hand. E. H. Nelson, supt.	
"		"	Gold Standard Tunnel & Mining Co., Eben Smith, pres.; F. G. Bettis, secy. and treas.; H. W. Barry, mgr. Cap. stk. \$100,000. Gold Standard, gold. Tunnel, electricity. Ed. Gindlet, supt.	
"		"	Mountain Tiger Mining Co., Samuel Gale, pres.; F. D. Taylor, secy.; Fred Williams, treas.; J. C. McKenna, mgr. Cap. stk. \$100,000. Mountain Tiger, gold. Tunnels, hand (developing).	
"		"	Work Mining & Milling Co., Colorado Springs, Colo., Midland Block, James Beahrs, pres.; H. E. Bassett, secy.; H. A. Mills, treas.; J. T. Reed, mgr. Cap. stk. \$1,500,000. Footman, Morning Glory, Ida B. and others, gold, silver. Shaft, tunnel, refractory, hand, J. Skews, supt.	
Beaver Park (P. O. Colorado Springs, Ry. Florissant 26.		El Paso	Cut Diamond Mining & Milling Co., Colorado Springs, Colo., A. H. Swarent, pres.; G. H. Radfish, secy.; supt. and mgr.; L. S. Slatona, treas. Cap. stk. \$100,000. Gold. Shaft, tunnel, free, steam.	
Bertland		Larimer Ry. Arkins 776.	Palmer, Hart & Co., Cap. \$50,000. Peacock, White Quail, gold, silver. Shaft, refractory, hand, James A. Downer, supt.	
Biedell		Saguache P. O. and Ry. Del Norte 215.	The Grand View Mining Co., Del Norte, Colo., Wm. H. Cochran, pres.; C. W. Thomas, secy.; John H. Shaw, treas.; L. R. McLeod, mgr. and supt. Cap. stk. \$300,000. Grand View, silver. Tunnel, free, hand.	
Black Hawk Ry. 776.		Gilpin	The Bates Hunter Mining Co., Denver, Colo., Mining Exchange Bldg., S. A. Nowell, pres.; G. H. Bathefor, secy.; W. R. Rathvon, treas.; W. M. McEachen, mgr. Cap. stk. \$1,000,000. Gold. Shaft, free, steam.	
"		"	Belmont Mining Co., Henry Kroger, pres.; Philip Rohling, secy. and treas.; Wm. Mitchell, mgr. Cap. stock, \$25,000. Chemung, gold, silver, copper. Shaft, 300 tons, free, refractory, steam.	
"		"	Fisk Mining & Milling Co., Denver, Colo., Room 3 Bank Bldg., F. C. Caine, pres.; D. E. Chase, secy.; mgr. and supt.; L. H. Stockbridge, treas. Cap. stk. \$250,000. Fisk, gold, silver. Shaft, refractory, free, steam.	
"		"	Free American Gold Mining Co., Denver, Colo., 355 Club Bldg., M. A. Downing, pres.; S. H. Cobb, secy. and treas.; M. L. Cox, mgr. and supt. Cap. stk. \$500,000. Free American, gold. Shaft, free, steam.	
"		"	Little Maude Gold Mining Co., Colorado Springs, Colo., L. Hall, pres. and mgr.; C. P. Wikes, v. pres.; R. B. Taylor, secy.; F. H. Hall, treas. Cap. stk. \$150,000. Little Maude, gold. Tunnel, free, hand (developing).	
"		"	James A. Perley & Son, Cap. \$50,000. Black Jack, silver, gold, lead, copper. Shaft, 75 tons, refractory, steam.	
"		"	Reed & Co., Cap. \$100,000. Gregory Boldard, gold. Shaft, slope, 30,000 tons, steam, 125 stamps, J. W. Bostwick, supt.	
"		"	The Yosemite Hydraulic Mining Co., Denver, Colo., 818 Ernest & Cranner Bldg., W. B. Peters, pres. and mgr.; C. M. Berry, secy.; M. P. Dalton, treas. Cap. stk. \$250,000. Yosemite, gold, placer, hydraulic, W. B. Peters, supt.	
Bonanza		Saguache Ry. Villa Grove 215 (16 miles).	Ariadne Mining Co., Denver, Colo., Room 411 Boston Bldg., A. W. Powell, pres.; R. H. Goddard, secy.; J. B. Peterson, treas.; R. W. Correll, mgr. and supt. Cap. stk. \$100,000. Sosthenes, Colorado and Excelsior, silver and copper. Shafts and tunnel, 600 tons, free and refractory, steam, hand.	
"		"	Radwin et al., Cap. \$100,000. Gold, silver, copper. Tunnel, 50 tons, hand, J. D. Radwin, supt.	

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILROADS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Bonanza	Saguache	Bonanza Mining Co., Springfield, Ohio, Kelly Arcade. O. S. Kelly, pres., secy. and treas., Irwing How-		
(Continued.)		land, mgt., Cap. stk. \$200,000. Bonanza, gold, silver, lead. Shaft, 1,000 tons; refractory; horse. J. D. Baldwin, supt.		
"	"	J. K. Brewster, Pueblo, Colo. Eagle, silver, lead. Shaft; refractory; steam (developing).		
"	"	Hon. Charles Foster, Washington, D. C. Payson, gold, silver, lead. Shaft; steam; refractory. R. W. Correll, supt.		
"	"	D. J. McIntosh, Superior, silver, lead. Shaft; tree; refractory; horse (developing).		
"	"	Samuel F. Rathvon, Denver, Colo. Eschequer, gold, silver, copper. Shaft; tunnel; refractory; hand. C. H. Leavitt, supt.		
"	"	L. C. Valentine, Occidental, silver, lead. Slope; horse (developing).		
"	"	El E. Weddington, Saint Louis, gold, silver, lead. Shaft, 50 tons, refractory; hand.		
"	"	David G. Weems, Baltimore, Md., 6 South St. Michigan, Boss Mammoth, Empress and Josephine, silver, lead, copper. Tunnel, shaft; refractory; hand (developing).		
Boulder	Boulder	Buckeye Mining & Milling Co., E. S. Teagarden, pres., J. A. Teagarden, secy. and treas. Cap. stk. \$850,000. Buckeye, gold. Shaft, tree and refractory; horse (developing).		
Ry. 776.		C. G. Buckingham, Magnolia, gold. Shaft, tunnel; refractory.		
"	"	Rock Island Gold Mining Co., Rock Island, Ill., cor. Fifth av. and Eighteenth st. Gustav Stenzel, pres.; Wm. B. Ferguson, secy.; C. D. Gordon, treas.; H. C. Cleveland, mgr. and supt. Cap. stk. \$1,000,000. Rock Island, gold. Shaft, tunnel; refractory; steam; 100 stamps.		
"	"	Sugar Loaf Mining & Milling Co., Denver, Colo., 1627 Champa st., P. O. Box 2895. Frank P. Kellogg, pres.; William H. Person, secy. and treas.; Abraham Clawson, mgr. and supt. Cap. stk. \$600,000. R. B. Potter and Walker Lodes, gold. Shafts and tunnels; free, steam; 20 stamps (developing).		
"	"	H. C. Thompson, Eighteenth st. Rebecca, Tellurium, gold and silver. Shaft (developing); refractory; steam.		
(S miles).	"	G. R. Williamson, Yellow Pine Group, silver. Tunnel, 117 tons; refractory. G. A. Carlson, supt.		
Box Elder	Larimer	Rawlins & Parkhurst, L. A. Rawlins, pres.; M. B. Rawlings, secy.; G. S. Parkhurst, treas. Peeler		
Ry. Granite Canon, 26, 215.		Lode, gold, silver, lead. Tunnel; free (developing).		
Breckenridge	Summit	Dunkin Mining Co., Leadville, Colo., 115 E. Eighteenth st. Woodward Emery, pres.; William Favon jr., secy.; James C. Elms, treas.; Warren F. Page, mgr. Cap. stk. \$5,000,000. Gold, silver, lead. Shaft, tunnel, 12,000 tons; refractory; steam. J. Q. Thomas, supt.		
Ry. 776.		Extension Mining & Milling Co., Denver, Colo., 505 Mining Exchange Bldg. W. R. Head, pres.; A. J. King, secy.; Henry M. Fair, treas.; Geo. W. Fair, mgr. Cap. stk. \$500,000. Extension, gold. Tunnel, 4,000 tons; free, steam, 10 stamps. H. M. Fair, supt.		
"	"	Glen Mohawk Mining Co., St. Louis, Mo., 404 Market st. O. L. Garrison, pres.; J. D. Foster, secy. and treas. Cap. stk. \$250,000. May Flower, silver. Tunnel, refractory, water; steam; 20 stamps.		
"	"	A. G. Hoopes, Orthodox Group, gold, silver, lead. Shaft, tunnel, 80 tons, refractory.		
"	"	The Jossie Gold Mining & Milling Co., Chicago, Ill., 200 Lake st. R. S. Reynolds, pres.; W. L. Gray, secy. and treas.; W. L. Wilson, mgr. and supt. Cap. stk. \$400,000. Gold, silver. Tunnel; free (developing).		
"	"	Juniata Mining & Milling Co., Denver, Colo. Geo. A. Shapleigh, pres. and treas.; Geo. S. Hayes, secy. and mgr. Cap. stk. \$250,000. Juniata Group, gold, silver, lead. Shafts, drift, free, steam; mill (developing).		
"	"	J. W. Kaufman, St. Louis, Mo., Laclede Bldg. Minnie, silver, lead. Shaft, tunnel, 3,000 tons, steam. Thos. McKenna, supt.		
"	"	The Oro Mining & Milling Co., H. H. Loomis, pres.; J. H. Thompson, secy. and treas. Cap. stk. \$500,000. Oro, Siam, Chief, Diamond Dick, gold, silver, lead. Shaft, tunnel; refractory; steam; mill. J. H. Thompson, supt.		
"	"	The Ouray Mining & Milling Co., Thos. D. Price, pres. and treas.; Edward Price, secy. Cap. stk. \$500,000. Ouray Group, silver. Tunnel, shaft, refractory, steam; mill, concentrator. Jacob Conrad, supt.		
"	"	Revere Mining Co., St. Johnsbury, Vt. A. T. Spencer, pres.; F. W. Cullen, secy.; A. C. Allen, treas.; Thos. McKenna, mgr. Cap. stk. \$500,000. Revere, gold, silver, lead. Shaft, tunnel, 36,000 tons, steam (developing).		
"	"	Teconsch Mining & Milling Co., Denver, Colo., 706 Ernest & Cramer Block. Geo. A. Shapleigh, pres. and treas.; Geo. S. Hayes, secy., mgr. and supt. Cap. stk. \$250,000. Teconsch, gold, silver, lead. Tunnel (developing).		
"	"	Treasure Mining & Milling Co., Pittsburg, Pa., 607 Fergusson Bldg. James G. Corcoran, pres.; W. E. Goldberg, secy.; Andrew Johnson, treas.; C. K. O'Hara, mgr. Cap. stk. \$500,000. Treasure, silver. Tunnel, shaft, 750 tons, free, steam. Carl Johnson, supt.		
Buena Vista	Chaffee	E. Block & Co., Martha Bonney, Lottie, gold, silver, copper, lead. Tunnel; refractory; hand (developing). J. H. Wenner, supt.		
Ry. 26, 215, 776.		Edward T. Bradford & Geo. H. Parsons, Colorado Springs, Colo., Pike's Peak av. Salvator and Princeton, silver and lead. Shaft and tunnel, refractory; horse (developing). Charles M. Sharpe, supt.		
"	"	Cora Belle Mining Co., Cora Belle, gold, silver, lead. Tunnel, refractory; hand; mill. Asa Fox, supt.		
"	"	The Handy Silver Mining Co., E. F. Williams, pres.; R. H. Clifford, secy.; C. M. Sharpe, mgr. and supt. Cap. stk. \$500,000. Handy, Encyclopedia, silver. Tunnel; refractory; hand (developing).		
"	"	The Fredonia Consolidated Mining Co., R. S. Appel, pres.; D. R. Ney, secy. and treas.; R. T. Schlaepig, mgr. and supt. Cap. stk. \$100,000. Fredonia, lead, gold, silver. Tunnel, shaft; free; hand (developing).		
"	"	Ph. Groves, Atlantic and Longfellow, gold, silver, lead, copper. Tunnel; refractory; hand. Emerson Geo, supt.		
"	"	The Highland Mining Co., C. M. Sharpe, pres.; R. T. Schlaepig, secy. Cap. stk. \$300,000. Highland, Gramham, silver, lead. Tunnel, refractory; hand. C. M. Sharpe, supt.		

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN	COUNTY.	
Buena Vista	Chaffee	The Hortense Mining Co., Hortense, silver, Tunnel, shaft, refractory, hand, Eugene F. Tents, supt.
"	(Continued.)	
"	"	C. F. Landes & Co., Mt. Carmel, gold, silver, lead, copper, Tunnel, shaft, refractory, hand (developing), Con. F. Landes, supt.
"	"	C. A. Morse, Lizzie M. Mohawk, gold, silver, Tunnel, refractory, hand (developing).
"	"	The Mount Princeton Tunnel Co., H. R. Dean, pres't., J. Quincey Hunsicker, secy and treas., C. M. Sharpe, mgr. and supt., Cap. stk. \$100,000, Wild Irish Boy, silver, lead, Tunnel, refractory, hand (developing).
"	"	The Salvator Mining Co., Edw. T. Bradford, mgr., Salvator, silver, lead, Tunnel, shaft, refractory, hand, C. M. Sharpe, supt.
Carbon	Boulder	The Poorman Silver Mines of Colorado, Ltd., Glasgow, Scotland, 1st W. George St., Leonard Cow, pres't., R. A. Murray, secy, Cap. stk. \$850,000, Poorman Group, silver, Shaft, deep, 1,500 tons, refractory, steam, mill, Neil D. McKenzie, supt.
Carrero	Saguache	Grand View Mining, Milling & Development Co., Del Norte, Colo., W. H. Cochran, pres't., Charles W. Thomas, secy, John H. Shaw, treas., Isaac A. McLeod, mgr. and supt., Cap. stk. \$500,000, Grand View Lode, Mountain View Lode, gold, silver, Tunnel, free (developing).
Carson	Hinsdale	The Carson Mining Co., Denver, Colo., 26 Mining Exchange Bldg., H. S. Hubbard, pres't., W. Coleman, secy., W. R. Dungan, treas., J. S. Chapman, mgr. and supt., Cap. stk. \$1,000,000, Big Indian, gold, silver, Shaft, tunnel, hand, steam.
"	"	Cresco Mining Co., Lake City, Colo., T. H. Wigglesworth, pres't., John T. Heard, secy., A. Snelaker, mgr., Cresco, gold, silver, Tunnel, refractory, G. W. Crowe, supt.
"	"	Geo. H. Mining, Milling & Smelting Co., St. Louis, Mo., A. F. Perry, pres't., A. A. Hinzler, secy., J. N. Hull, treas., G. W. Cory, mgr. and supt., Cap. stk. \$600,000, Geo. H. Anna, Hattie, silver, Tunnel, 50 tons, hand.
Central City	Gilpin	Argyle Gold Mining Co., Chicago, Ill., the Chamber of Commerce, Percy C. Hamilton, pres't. and treas., Wm. Phelps, secy., Henry F. Lowe, mgr. and supt., Cap. stk. \$1,000,000, Argyle, gold, Shaft, 1,200 tons, free, steam, 50 stamps.
"	"	Fisk Mining & Milling Co., F. C. Carner, pres't., D. I. Chase, secy. and mgr., L. H. Stockbridge, treas., Cap. stk. \$250,000, Fisk, gold, Shaft, refractory, steam.
"	"	Gettysburg Mining Co., Denver, Colo., W. A. McLean, pres't., N. O. Vashburg, secy. and treas., J. E. Hater, mgr. and supt., Cap. stk. \$300,000, Gettysburg, gold, silver, Shaft, 3,000 tons, free, steam.
"	"	The Gilpin Franklin Gold Mining Co., Denver, Colo., Ernest A. Rammer Block, John P. Olympius, pres't., Wm. A. Moore, secy., Max Egan, treas., A. J. Smith, mgr. and supt., Cap. stk. \$500,000, Franklin, Lois, Clyde, gold, Shaft, free, horse.
"	"	The Golconda Mining & Milling Co., Wm. J. Thomas, pres't., C. E. Street, secy. and treas. and mgr., Cap. stk. \$800,000, Little Lalla, Little Mary, gold, Tunnel, free, steam, 10 stamps (developing), C. E. Street, supt.
"	"	Gold Rock Mining & Milling Co., Denver, Colo., Bonns Labor Block, John Benson, pres't., G. Krohn, secy. and treas., Cap. stk. \$300,000, Sprungdale, gold, silver, copper, Shaft, refractory, steam, J. Ben Lewis, supt.
"	"	The Gregory Consolidated Mining Co., Denver, Colo., 56 Mining Exchange Bldg., Joseph B. Hater, pres't. and mgr., C. L. Schmidt, secy., Louis Wagner, treas., Cap. stk. \$500,000, Gregory Second, gold, silver, Tunnel, shaft, 5,000 tons, refractory, horse, mill, Joseph B. Hater, supt.
"	"	Geo. W. Hill, Banta, silver, gold, Shaft, drift, refractory, steam.
"	"	The Jupiter Belmont Mining Co., Denver, Colo., 220 Seventeenth St., A. A. Bowhay, pres't., David Keith, v. pres't., Chas. A. Johnson, secy., A. P. Penney, treas., Chas. M. Shaw, mgr. and supt., Cap. stk. \$1,000,000, Jupiter, St. Clair and Belmont, gold, Shaft, free, steam.
"	"	Geo. W. Mabie, National, gold, silver, Shaft, 3,000 tons, free, steam.
"	"	New California Co., Ltd., London, Eng., Bloombold House, London Wall, H. L. Walker, pres't., W. H. Rowe, secy. and treas., Alfred Rickard, mgr. and supt., Cap. stk. \$800,000, California, gold, silver, Shaft, 10,000 tons, free, steam, 10 stamps.
"	"	The Pewabic Mining Co., Cornett Bluffs, Iowa, Lewis Hammet, pres't., Hon. Geo. L. Wright, secy. and treas., John H. Kemp, mgr. and supt., Pewabic, gold, silver, Shaft, refractory, steam.
"	"	The Saratoga & Cuyahoga Gold and Silver Consolidated Mining Co., Joseph H. Berry, pres't., W. G. Smith, secy., John Best, treas., mgr. and supt., Cap. stk. \$1,500,000, Saratoga, Cuyahoga, gold, silver, Shaft, 5,000 tons, refractory, steam.
"	"	Spur Daisy Mining Co., Denver, Colo., 26 Mack Block, L. W. Tatum, pres't., Ivan J. Carr, secy. and treas., A. A. Macdonald, mgr., Cap. stk. \$300,000, Spur, Daisy, Two Sisters, Monitor, Little Chicago, gold, silver, lead, copper, Shaft, 50 tons, free, refractory, steam, horse, Daniel Minnady, supt.
"	"	The Sutton Mining & Milling Co., Denver, Colo., Mining Exchange Bldg., T. W. Nichols, pres't., R. W. Cokell, secy., W. R. Root, treas. and mgr., Cap. stk. \$300,000, Myra Adams, Norway, Maggie, gold, silver, Shaft, drift, refractory, steam (developing), John E. Sutton, supt.
Chimney	Lake	G. C. Wortman, John Reed, gold, silver, lead, Shaft, 600 tons, refractory, electricity.
Ry., Alamosa 776.		
Como	Park	Leola Peabody, Peabody, gold, Placer, hand
Ry. 776.		
"	"	Peabody & Foot, City of Hamilton, gold, Tunnel, 10 tons, free, steam, 10 stamps, Henry Foot, supt.
"	"	J. M. Link, Henry Foot, mgr., Eureka, No. Plus Ultra, Kentucky, gold, 1,200 tons, free, steam, 10 stamps.
"	"	Oliver & Martin, Mineral Ranch, gold, Tunnel, slope, 200 tons, free, water, 10 stamps.
"	"	Reed & Jarvis, Lena, gold, silver, Tunnel, free, hand, 10 stamps, D. R. Jarvis, supt.
Copper Rock	Boulder	C. G. Buckingham, Boulder, Colo., McDermott, Occidental, gold, Shaft, tunnel, free (developing).
Ry. 776.		

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Copper Rock,	Boulder		Copper Rock Gold Mining Co., Denver, Colo., cor. Seventeenth and Champa sts., W. W. Booth, pres.; Dr. (Continued.)	F. H. Lay, secy.; J. K. Carlston, mgr. and supt. Cap. stk. \$100,000. Gold. Tunnel; free; 15 stamps.
"	"		Denver & Copper Rock Gold Mining Co., Denver, Colo., 1325 Seventeenth st., Wm. K. Barchinell, pres.; Dr. F. H. Lay, secy.; Albert Lewin, treas.; A. B. Gibson, mgr. and supt. Cap. stk. \$1,000,000. Lucky, Lonest, Lacy and others, gold. Shafts and tunnels; free (developing).	
"	"		Gold Dust Mining & Milling Co., Denver, Colo., 617 Mining Exchange Bldg., L. D. Lough, pres. and treas.; R. F. Copes, secy.; W. J. Hegel, mgr. Cap. stk. \$500,000. Maud S., Gold Dust, Medicine Man, gold, shaft, tunnel, free; 20 stamps. W. J. Hegel, supt.	
"	"		Orphan Boy Mining & Milling Co., Denver, Colo., 613 Mining Exchange Bldg., Wm. Wise, pres. and treas.; N. C. Merrill, secy. and mgr. Cap. stk. \$1,000,000. Orphan Boy, Kaiser Wilhelm, Emperor, gold. Tunnel, 2,500 tons; free, steam; 15 stamps. Chas. Davis, supt.	
"	"		Orphan Boy Extension Mining & Milling Co., Denver, Colo., Hon. J. C. Helm, pres.; N. C. Merrill, secy. and treas.; C. Davis, mgr. Cap. stk. \$1,000,000. East Lode, Negotiable, gold. Shaft; free; steam.	
"	"		Queen Bess Gold Mining Co., Denver, Colo., 529 Mining Exchange Bldg., A. C. Schlesinger, pres.; D. E. Lerkel, secy. and mgr.; H. W. Kirchner, treas. Cap. stk. \$100,000. Sneaker Boy, gold. Shaft; free; hand (developing). John Fuller, supt.	
Creede Ry. 215,	Saguache		Amethyst Mining Co., David H. Moffatt, pres., W. S. Cheesman, secy. and treas.; L. E. Campbell, mgr. Cap. stk. \$500,000. Amethyst, silver, gold, lead. Slope, 22,000 tons; refractory; steam. Harry Allenby, supt.	
"	"		The Antlers Mining & Milling Co., E. Barnett, pres., O. L. Godfrey, secy. and treas.; O. D. Davis, mgr. Cap. stk. \$1,000,000. Twenty claims, silver. Shaft; horse (developing). Mr. Crawford, supt.	
"	"		Coin Silver Mining Co., O. P. Poole, pres. and mgr.; W. H. Spargue, secy.; H. E. Johnson, treas. Cap. stk. \$500,000. White, Equitable, silver, lead. Shaft; steam (developing).	
"	"		The Creede & Cripple Creek Land & Mining Co., Denver, Colo., 168 Curtis Bldg., Room 16, William Warren, pres.; S. J. Shirley, secy. and treas.; Alonzo Abbott, mgr. Cap. stk. \$250,000. Cripple, Frego, Abbott's Dream and others, gold, silver. Shaft; free; hand (developing). Matthew A. Rowen, supt.	
"	"		Creede Mining & Milling Co., Denver, Colo., 310 Boston Bldg., R. W. Woodbury, pres., F. A. Metcalf, secy. and treas.; D. J. Hutchison, mgr. and supt. Cap. stk. \$100,000. Metcalf, silver. Tunnel (de- veloping).	
"	"		The Crown Point Mining & Milling Co., Howard C. Chapin, pres. and mgr.; E. I. Howard, secy. and treas. Cap. stk. \$1,000,000. Crown Point, Kentucky Boy and others, silver. Shaft; free; horse (developing). Howard C. Chapin, supt.	
"	"		Del Monte Mining & Milling Co., Colorado Springs, Colo., W. J. Wilcox, pres.; H. G. Lunt, secy.; J. A. Hayes, treas. Cap. stk. \$500,000. Del Monte, silver. Shaft (developing).	
"	"		Four Hundred Acre Consolidated Diamond Drill Mining Co., Denver, Colo., F. P. Ernest, pres.; Howard C. Chapin, secy.; George R. Swallow, treas.; A. F. Hazeltine, mgr. and supt. Cap. stk. \$300,000. Fifty claims, silver. Free, steam (developing).	
"	"		Grand Pacific Mining Co., E. W. Hartbut, pres.; L. B. Mather, secy.; A. H. Reynolds, treas.; J. B. Warner, mgr. and supt. Cap. stk. \$1,000,000. Grand Pacific, silver. Tunnel (developing).	
"	"		The Holy Moses Mining Co., David H. Moffatt, pres.; L. E. Campbell, mgr. Holy Moses, Ethel, gold, silver, lead. Tunnel, shaft, 6,000 tons; free; horse. Harry Allenby, supt.	
"	"		King Solomon Mining & Milling Co., Denver, Colo., 207, 208 and 300 Boston Bldg., N. C. Creede, pres.; Edwin I. Rogers, secy.; Geo. W. Robinson, treas.; Theo. Craig, mgr. and supt. Cap. stk. \$2,000,000. King Solomon, Relat, silver, gold. Shaft, tunnel; refractory; hand.	
"	"		Little Mad Mining & Milling Co., Denver, Colo., 207, 208 and 300 Boston Bldg., Wm. G. Elder, pres.; J. R. Sanville, secy.; N. J. Miller, treas. Cap. stk. \$2,000,000. Little Mad, Silver Plume, silver. Shaft, tunnel; refractory; hand. Wm. F. Hogan, mgr. and supt.	
"	"		Manmoth Mining & Smelting Co., Pueblo, Colo., Central Block., E. H. Martin, pres.; A. L. Murry, secy.; C. F. Roy, treas.; E. J. Wilcox, mgr. and supt. Cap. stk. \$2,500,000. Fourteen claims, silver, gold, shaft, tunnel, refractory, free, steam, hand.	
"	"		Manmoth Mountain Deep Mining & Tunnel Co., Denver, Colo., Mining Exchange Bldg., H. A. Ferguson, pres.; H. E. Wood, secy.; W. S. Nichols, treas.; F. G. Peck, mgr. and supt. Cap. stk. \$1,250,000. Little Vernie, Black Girl, Baryta, gold, silver. Tunnel, shaft, free.	
"	"		Nelson Tunnel & Mining Co., A. W. Brownell, pres.; J. P. Walker, secy.; E. F. Kelly, treas. Cap. stk. pd. \$1,000,000. Triangle Lode, silver. Tunnel, refractory; water (developing). Ed. Wagner, supt.	
"	"		Pueblo & Creede Mining & Milling Co., Pueblo, Colo., Union av., C. H. Watkins, pres.; H. T. Wilson, secy. and treas.; Thos. R. Henaley, mgr. and supt. Cap. stk. \$500,000. Tenay Foundation, silver. Shaft, refractory, hand (developing).	
"	"		Silver King Manmoth Mining Co., Denver, Colo., 626 Mining Exchange Bldg., Wm. H. Yankee, pres.; W. H. Conley, secy. and treas.; Colin Timmons, mgr. and supt. Cap. stk. \$1,000,000. Silver King, Monitor and Metairie, silver. Shaft, free, steam (developing).	
"	"		U. S. Paymaster Mining Co., Denver, Colo., 35 Barche Block., Evan Morton, pres.; Geo. W. Trommlitz, secy. and mgr.; E. C. Humphrey, treas. Cap. stk. \$500,000. U. S. Colorado Boy, Paymaster, Johnny Bull, silver. Tunnel; refractory, horse (developing). E. F. Gordon, supt.	
Crested Butte Ry. 215,	Gunnison		Cumberland Consolidated Mining & Milling Co., Aspen, Colo., Joseph Reese, pres.; E. C. Stinson, secy.; H. J. Tinsington, treas.; J. M. V. Hovut, mgr. Cap. stk. \$1,000,000. Cumberland, gold, silver. Tunnel; free, compressed air. F. R. McLaughlin, supt.	
"	"		The Diamond R Mining Co., Pueblo, Colo., 212 S. Union av., J. J. Langdon, pres.; John S. Stewart, secy.; Julius Fish, treas. Cap. stk. \$500,000. Diamond (R) and Honest Old Grover, silver. Tunnel; refractory, hand (developing). C. F. McLaughlin, supt.	
Crestone Ry. Moffat 215 (18 m.),	Saguache		Kunkel Bros., Banner, gold. Shaft, free, hand (developing).	
"	"		Von Moltke Mining Co., Hugo Henkanter, mgr. and supt. Von Moltke, gold, silver. Tunnel, shaft, 50 tons, refractory, hand (developing).	

GOLD AND SILVER—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINA, AUSTAL OUTPUT IN TONS OF 200 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN	AND	COUNTY	
Cripple Creek.	El Paso	Altamir Mining Co., Colorado Springs, Colo., cor. Pike's Peak av. and Tejon st. Hon. F. E. Robinson, pres.; E. W. McNeal, secy.; H. E. Bassett, treas.; Lloyd Adamson, mgr. Cap. stk. \$800,000. Four (18 miles.) claims, gold. Shaft, tunnel, free, hand. L. Adamson, supt.	
"	"	The Alverta Gold Mining Co., Denver, Colo., cor. Seventeenth and Curtis sts. Edmund L. Scholtz, pres.; H. P. Ellis, secy.; C. Thomas Reedy, treas.; H. C. Lawrence, mgr. Cap. stk. \$600,000. Alverta, gold. Tunnel, shaft, free, hand. H. C. Lawrence, supt.	
"	"	Amazon Mining & Milling Co., Denver, Colo., Room 816 Boston Bldg. O. McNeill, pres.; W. E. Reed, secy. and treas.; James J. Dancy, mgr. Cap. stk. \$600,000. Refractory, conglomerate and other claims, gold. Shaft, tunnel, 9,500 tons, free and refractory, steam, 10 stamps. Charles Steele, supt.	
"	"	American Flag Mining & Tunnel Co., L. H. Towley, pres.; W. E. Meek, secy.; J. R. McKinney, treas.; John Horgan, mgr. Cap. stk. \$200,000. Gold, Tunnel, free, hand, John Horgan, supt.	
"	"	Anaconda Gold Mining Co., Denver, Colo., 1115 Wyndkoop st. D. H. Mohatt, pres.; C. F. Harrison, secy.; First National Bank of Denver, treas.; Eben Smith, mgr. and supt. Cap. stk. \$200,000. Anaconda, McClams, gold. Tunnels and shafts, steam.	
"	"	Anglo American Prospecting & Developing Co., Box 386, W. R. Vacher, pres. and mgr.; J. C. Steele, secy.; H. H. Vacher, treas. Cap. stk. \$250,000. Fifteen claims, gold, developing.	
"	"	Badger Boy & Ivanhoe Mining Co., Colorado Springs, Colo. T. A. McMorris, pres.; W. C. Frost, secy. and treas.; Benjen Boney, mgr. Cap. stk. \$600,000. Badger Boy and Ivanhoe, gold. Shaft and tun- nel, free, developing.	
"	"	Bull Mountain Gold Mining Co., Colorado Springs, Colo., Gazette Building. Count James Pontrele, pres.; Thos. C. Parrish, secy. and treas. Cap. stk. \$100,000. Twenty-two claims, gold and silver. Shaft, tunnels, 20 tons, refractory, free. Richard Lloyd, supt.	
"	"	B. V. Gold Mining Co., Colorado Springs, Colo., Gazette Building. Count James Pontrele, pres.; Thos. C. Parrish, secy. and treas. Cap. stk. \$200,000. Bateria Vista, gold and silver. Shaft, tunnel, 30 tons, refractory, free. T. F. McDonald, supt.	
"	"	Champa Mining & Milling Co., Denver, Colo., 104 California Bldg. T. N. Guyer, pres.; Ed. F. Pitkin, secy.; S. S. Smythe, mgr. and supt. Cap. stk. \$100,000. Champa, gold. Shaft and tunnels, free, 10 stamps, developing.	
"	"	Chat Mining & Milling Co., Colorado Springs, Colo. J. A. Himebaugh, pres.; Geo. Lindley, secy.; D. Herron, treas.; H. Chadillon, mgr. and supt. Cap. stk. \$60,000. Lita Chat, Hubert Chat, and others, gold. Shaft, placer, free, steam, 30 stamps.	
"	"	Clifton Mining & Milling Co., Colorado Springs, Colo., 127 and 127 S. Tejon st. T. M. Dolan, Clifton, Kan., pres.; A. W. Maxwell, secy.; W. D. Harmon, Clifton, Kan., treas.; Geo. O. Sevin, mgr. and supt. Cap. stk. \$300,000. Lila H., Clara D., gold. Shaft, free, steam.	
"	"	C. O. D. Gold Mining Co., Colorado Springs, Colo. T. M. Stechem, pres.; Clarence Telsall, secy. and treas.; Chas. L. Tiff, mgr. and supt. Cap. stk. \$200,000. C. O. D. My Choice and Berkeley, gold and silver. Shaft, refractory, free, developing.	
"	"	Colfax Mining Co., Colorado City, Colo. J. R. Watt, pres.; A. R. Hall, secy.; Fred Hildner, treas. Cap. stk. \$100,000. Mammoth, Moose, Buffalo, Carbon and others, 2,000 silver. Shaft.	
"	"	Compact Mining & Milling Co., L. R. Thompson, pres.; H. E. Warren, secy. and mgr.; J. H. Parker, treas. Cap. stk. \$200,000. Compact, gold. Shaft and tunnel, free, horse, developing. Mark Thomas, supt.	
"	"	Conservative Mining & Milling Co., Colorado City, Colo. E. S. Brown, pres.; M. J. Myers Smith, secy.; Chas. A. Crane, treas.; M. O. Evans, mgr. and supt. Cap. stk. \$250,000. Gold, Shaft, tunnel, refrac- tory, free.	
"	"	Coronado Gold Mining Co., Pueblo, Colo., Central Block. Paul Wilson, pres.; Chas. S. Sauerland, secy.; John H. Olmes, treas.; N. F. Cayot, mgr. and supt. Cap. stk. \$100,000. Napoleon, Amy H., Katie M. and others, gold. Open, 15,000 tons, free, electricity, 100 stamps.	
"	"	Cripple Creek Syndicate Mining & Milling Co., Denver, Colo., 1615 Lawrence st. John L. Russell, pres.; C. S. Hooper, secy. and treas.; A. K. Hoffman, mgr. and supt. Cap. stk. \$200,000. Cripple Creek, syndi- cate, gold. Shaft, 65 tons, free, steam, developing.	
"	"	The Cripple District Mining Co., Denver, Colo., 1615 Lawrence st. J. C. Rice, pres.; Chas. F. Tohold, secy. and treas.; S. D. Rosefield, mgr. and supt. Cap. stk. \$25,000. Ten claims, gold. Tunnel, shaft developing.	
"	"	Crystal Mining Co., 120 Belmont av. W. H. Young, pres. treas., mgr. and supt. Thos. Doherty, secy. Cap. stk. \$50,000. Panther, Storm and Monte Christo, gold. Shafts, free, hand, developing.	
"	"	The Denver & Cripple Creek Mining Co., Denver, Colo., 317 Seventeenth st. H. J. Kense, pres.; T. A. Smith, secy.; F. H. Mason, treas.; J. A. Rices, mgr. Cap. stk. \$300,000. E. H. Mason, Anacoda, City of Paris and others, gold, developing.	
"	"	The Double Eagle Mining Co., Colorado Springs, Colo., 21 Bank Bldg. Henry D. Gortner, pres.; John J. O'Neil, pres.; Bert W. Osborn, secy. and treas.; J. F. Topling, mgr. and supt. Cap. stk. \$100,000. Double Eagle, Cripple Creek, Santa Ellen, gold. Shaft, free, hand.	
"	"	The El Dorado Gold Mining & Milling Co., Colorado Springs, Colo. J. F. Seldondridge, pres.; J. F. May- bury, secy. and treas.; F. M. La Vergne, mgr. Cap. stk. \$100,000. El Dorado, Sango and Cripple Creek, gold. Shaft, tunnel, placer, refractory and free, water.	
"	"	Elkton Mining & Milling Co., Colorado Springs, Colo., 105 South Tejon st. Geo. Bernard, pres.; Sam- Bernard, secy.; Van F. Rouse, treas. Cap. stk. \$200,000. Elkton, Kentucky, Billy and Warner, gold and silver. Shaft and tunnel, free. Van F. Rouse, supt.	
"	"	Free Conage Gold Mining Co., Colorado Springs, Colo. S. I. Altman, pres. and mgr.; M. M. Babb, Jr., secy.; James H. Babb, Jr., treas. Cap. stk. \$100,000. Rising Sun, Wilson and others, gold. Shaft drift, free, refractory, hand. Lined Mass, supt.	
"	"	Gold & Globe Hill Mining Co., Colorado Springs, Colo., 104 Pike's Peak av. A. Anders on, pres.; R. W. Anderson, secy.; Wm. W. Hassell, treas. Cap. stk. \$200,000. Gold, Globe and Iron King, gold. Tun- nel, shaft, 3,000 tons, hand. J. R. McKinney, supt.	
"	"	The Gold King Mining Co., Colorado Springs, Colo. T. A. Colburn, pres.; C. H. Dudley, secy. and treas. Cap. stk. \$1,000,000. El Paso, gold. Shaft and tunnel, 200 tons, refractory and free, hand, 15 stamps. Wm. Lennox, supt.	

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Cripple Creek.	El Paso	Gold Standard Mining & Milling Co., L. D. Rodebush, pres.; Ely G. Bettis, secy. Cap. stk. \$1,200,000.		
(Continued.)		Gold. Tunnel, shaft; steam, hand developing.		
"	"	Golden Eagle Mining & Milling Co., Colorado Springs, Colo., Daniel Gregg, pres.; W. C. Farrell, secy.; G. E. Foster, treas. Cap. stk. \$1,000,000. Comstock, Great Western and 7 other claims, gold. Placer, tunnel and shaft; free; steam.		
"	"	Golden Gate Prospecting, Mining & Milling Co., Fabian Lewis, pres. and mgr.; Peter McCrea, secy. and treas. Cap. stk. \$1,500,000. Fifteen lodes and placer claims, gold, silver. Shaft, tunnel, placer; refractory, free; water, steam and electricity. Dr. F. E. Lewis, supt.		
"	"	The Granite Hill Mining & Milling Co., Colorado Springs, Colo., L. H. Gowdy, pres.; C. W. Older, secy.; A. S. Andrew, treas.; W. H. Gowdy, mgr. Cap. stk. \$1,250,000. Granite Hill and Chicago Gilt developing.		
"	"	Ironclad Mining & Milling Co. Cap. stk. \$1,000,000. Gold. Tunnel, shaft; free. John S. Bogg, supt.		
"	"	Jack Pot Mining Co., Colorado Springs, Colo., 112 E. Pike's Peak av., E. J. Hadfield, pres.; John S. Lentz, secy.; R. H. Graham, treas.; Lew Jackson, mgr. and supt. Cap. stk. \$1,250,000. Jack Pot, Iron Mountain, Providence and Mary Wynn, gold. Tunnel, shaft; free; hand.		
"	"	The Jeff Davis Mining Co., Colorado Springs, Colo., C. M. Rice, pres.; C. B. Wiler, secy.; B. C. Hubble, treas. Cap. stk. \$1,000,000. Jeff Davis and 6 other claims, gold. Shaft; refractory. J. W. Wells, supt.		
"	"	Jefferson Mining Co., W. E. Crag, pres.; Geo. B. Meehan, secy.; Geo. Mayhew, treas.; Samuel Bishop, mgr. and supt. Cap. stk. \$1,000,000. Game Cock, Jay Hawker, Hattie, gold. Shaft, tunnel, 60,000 tons, free; electricity, 20 stamps.		
"	"	The Juno Mining & Milling Co., Denver, Colo., 2449 Champa st., Emile Bern, pres.; Gordon H. Rankine, secy.; W. S. Winslow, treas.; Ed Pinshon, mgr. Toward, gold. Tunnel.		
"	"	Le Clair Mining Co., Frank F. Castello, pres.; P. J. Ryan, secy.; H. L. Houghton, treas.; T. F. Houghton, mgr. and supt. Cap. stk. \$1,000,000. South Park, Le Clair and 2 others, gold and silver. Tunnel, shaft; free; refractory; hand developing.		
"	"	Legal Tender Mining and Milling Co., L. D. Rodebush, pres.; Ely G. Bettis, secy. Cap. stk. \$1,200,000. Gold. Tunnel, shaft; steam, hand developing.		
"	"	The Little Don Mining & Tunnel Co., P. O. Box 5, Geo. H. Hobson, pres.; G. B. Fortis, secy.; Geo. C. Harper, treas.; Pueblo; John Downen, mgr. and supt. Cap. stk. \$1,000,000. Gold. Tunnel, shaft; hand.		
"	"	Lille Mining & Milling Co., Denver, Colo., 1621 Stout st., I. J. Macerba, pres. and treas.; M. R. Hill, secy.; John H. Macerba, mgr. Cap. stk. \$250,000. Gold. Shaft, hand developing. I. Childe, supt.		
"	"	Lone Star Mining Co., John Hallbut, pres.; F. T. Osgood, secy.; F. T. Castello, treas.; E. B. Shettle, mgr. Cap. stk. \$1,000,000. Lone Star, gold. Free developing.		
"	"	Lone Star Mining and Milling Co., L. D. Rodebush, pres.; Ely G. Bettis, secy. Cap. stk. \$1,200,000. Gold. Tunnel, shaft; steam, hand developing.		
"	"	The Merie D. Gold Mining Co., 205 Carr av., E. C. King, pres. and mgr.; R. G. Mullin, secy.; Chas. H. Adams, treas. Cap. stk. \$1,000,000. Merie D., Jim Hauer, Archie, Winona, Lent M. and Poudre de Terre, gold. Shaft, tunnel, free; hand, E. C. King, supt.		
"	"	The Mountain Chief Gold Mining & Milling Co., John K. Vanatta, pres.; John M. Buckley, secy.; C. H. McMasters, treas.; F. M. Cliney, mgr. Cap. stk. \$1,000,000. Mountain Chief, gold, shaft, mined, 9,000 tons; free, horse. W. R. McElroy, supt.		
"	"	Mutual Mining & Milling Co., Colorado Springs, Colo., E. F. Titus, pres.; C. S. Bailey, secy.; W. H. Gandy, treas. and mgr. Cap. stk. \$300,000. New Discovery, Cripple Creek, Mineral Hill, Mollie Gibson and Independence, gold. Shaft, tunnel, free; horse, hand. W. H. Gandy, supt.		
"	"	National Belle Mining, Milling & Development Co., Fremont, Colo., James M. Parker, pres.; L. L. Stebbins, secy. and treas.; Samuel Strong, mgr. Cap. stk. \$500,000. Gold. Shaft, tunnel, free.		
"	"	Orphan Belle Mining & Milling Co., Colorado Springs, Colo., 112 Pike's Peak av., J. H. Gardner, pres.; J. K. Vanatta, secy.; J. E. Hunter, treas.; R. J. Coleman, mgr. and supt. Cap. stk. \$500,000. Orphan Belle, gold, silver and copper. Shaft and slope; refractory, horse developing.		
"	"	People's Gold Mining & Milling Co., Denver, Colo., M. J. Lawrence, pres.; R. G. Rockwell, secy.; F. L. Rohlfing, treas.; Wm. Hodgson, mgr. Cap. stk. \$500,000. People's, gold. Shaft, free developing. L. M. Bogart, supt.		
"	"	Pharmacist Mining Co., Colorado Springs, Colo., P. O. Box 376, J. K. Miller, pres.; A. D. Jones, secy.; J. W. Miller, treas. Cap. stk. \$1,200,000. Pharmacist, gold. Shaft, 6,000 tons; horse. A. D. Jones, supt.		
"	"	Plut Sheridan Mining & Milling Co., Pueblo, Colo., 301 Central Block, W. O. Campbell, pres.; Jas. A. Brown, secy. and treas.; J. C. Magner, mgr. and supt. Cap. stk. \$300,000. Plut Sheridan, gold and silver. Shafts and tunnels; refractory, hand developing.		
"	"	Pike's Peak Placer Mining & Milling Co., P. Johnson, pres.; Samuel Hershberger, A. pres.; A. W. Thurot, secy.; A. Sordiers, treas.; Bart Pottinger, mgr. Cap. stk. \$1,000,000. Pike's Peak, gold. Placer, free; steam and water. J. T. May, supt.		
"	"	Plain View Mining & Milling Co., Denver, Colo., 1630 Arapahoe st., Chas. E. Page, pres.; Chas. H. Petrie, secy.; John McLeod, treas. Cap. stk. \$300,000. Gold and silver. Shaft, free developing. A. Vanderhook, supt.		
"	"	Pluto Mining Co., Colorado Springs, Colo., J. K. Miller, pres. and treas.; A. D. Jones, secy.; Harry Ferguson, mgr. Cap. stk. \$500,000. Alta Nos. 1 and 2 and Lola, gold. Placer, shaft, tunnel, refractory, horse. Theo. Thorn, supt.		
"	"	Plymouth Rock Mining Co., Fremont, Colo., F. C. Hault, pres.; H. L. Shepherd, secy.; J. M. Parker, treas.; A. B. Krewson, mgr. and supt. Cap. stk. \$1,000,000. Plymouth Rock Nos. 1 and 2, World's Fair and others, gold and silver. Shaft, refractory, horse.		
"	"	Pride of Cripple Creek Mining Co., Denver, Colo., 801 Seventeenth st., Milo A. Smith, pres.; Arthur H. Cawley, secy.; R. W. Woodbury, treas. Cap. stk. \$1,000,000. Pride of Cripple Creek and others, gold. Shaft developing.		

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Cripple Creek.	El Paso	Pueblo Bell Mining & Milling Co., Pueblo, Colo., J. J. Lansing, pres't., D. Mitchell, sec'y., T. A. Skoane, treas., Cap. stk. \$250,000. Olive, Pearl, Lena and Edsburg, gold. Shaft and tunnel, free.		
"	"	Shasta Mining, Milling & Prospecting Co., Colorado Springs, Colo., W. W. Williamson, pres't., J. W. Rice, sec'y., D. Mitchell, treas., A. E. Moyn, mgt. and supt., Cap. stk. \$1,250,000. Joe Jefferson, Lady Florence and 3 other claims, gold. Shaft, tunnel, refractory, free, hand, electricity; 55 stamps.		
"	"	R. M. Sharvly & S. M. Rugg, Denver, Colo., R. M. Sharvly, pres't. and treas., S. M. Rugg, sec'y., Cap. stk. \$500,000. Gertrude H. Gold Cord and H. P. gold, silver. Shaft, free, hand, postamps. W. L. Camp, bell, supt.		
"	"	Spring Creek Mining Co., Colorado Springs, Colo., 20 E. Pike's Peak av., Frame O. Woods, pres't., W. H. Bacon, sec'y. and treas., Cap. stk. 800,000. indy, cap. \$25,000. Eight claims, gold, silver. Tunnel, Mr. Steat, supt.		
"	"	The Standard Mining & Land Co., Colorado Springs, Colo., Rooms 1 and 2 P. O. Block, L. L. Dwyett, pres't., W. P. McLaugh, sec'y., J. A. Voorhees, treas., G. A. Emery, mgt. and supt., Cap. stk. 800,000. Door Key, McManis, Malta, Ranger and Morning Star, gold. Four shafts and tunnel, free, hand.		
"	"	The Star of the East Mining & Prospecting Co., A. P. Hall, pres't., G. L. Hall, sec'y., A. B. Whitmore, treas., W. W. McConnel, mgt. and supt., Cap. stk. \$1,000,000. Star of the East, gold. Shaft, free, supt.		
"	"	The Star of the West Mining and Milling Co., Colorado Springs, Colo., C. H. White, pres't., Sherwood Albright, sec'y., O. G. Goodrich, treas., W. P. Kraft, mgt., Cap. stk. \$1,000,000. Gunlock, El Reno, World's Fair, gold. Shaft, 10,000 tons, free, horse. W. R. Walker, supt.		
"	"	The Sweet Mining & Milling Co., Pueblo, Colo., 20 S. Union av., Bardon S. Scott, pres't., J. H. Sherman, sec'y., G. H. Hard, treas., A. A. McKnight, mgt., Cap. stk. \$1,000,000. Gunlock, El Reno, World's Fair, gold. Shaft, 10,000 tons, free, horse. W. R. Walker, supt.		
"	"	The T. F. T. Mining & Milling Co., Colorado Springs, Colo., 1001 E. Pike's Peak av., M. M. Baldwin, pres't., J. W. Bell, sec'y. and treas., S. B. Burt, mgt., Cap. stk. \$500,000. T. F. T., gold. Shaft.		
"	"	Townsite Gold Mining Co., Colorado Springs, Colo., Chris E. Nott, pres't., J. Shelby Borden, sec'y. and treas., A. D. De Masters, mgt. and supt., Cap. stk. \$1,000,000. Townsite, gold. Shaft, free and refractory, horse, developing.		
"	"	Tuscarora Gold & Silver Mining & Milling Co., Denver, Colo., 207 Boston Bldg., O. P. Grove, pres't., G. G. Speer, sec'y. and treas., Cap. stk. \$500,000. Tuscarora, gold and silver. Shafts and tunnels, free and refractory. J. P. Kofke, supt.		
"	"	Union Gold Mining Co., Colorado Springs, Colo., Room 1 Midland Block, James B. Beshars, pres't., G. M. Carter, sec'y., H. Morse, treas., Geo. A. Jones, mgt. and supt., Cap. stk. \$1,500,000. Pike's Peak Del morio, Alpha Max, gold. Shaft, 10,000 tons, free, horse, hand, postamps.		
"	"	Valley Lake Mining Co., Denver, Colo., 505 Lawrence st., J. R. Speer, pres't., J. Richardson, sec'y., C. S. Hooper, sec'y. and treas., Cap. stk. \$500,000. Valley Lake, gold. Shaft, 175 tons, free, steam and mgt. A. K. Hoffman, supt.		
"	"	The Virginia Consolidated Mining Co., Colorado Springs, Colo., 131 E. Keweenaw, B. H. Bryant, pres't., D. M. Sells, sec'y., E. W. Sells, treas., Cap. stk. \$1,000,000. Gold and silver. Tunnel, shaft, open, refractory, free, hand, developing. W. A. Welch, supt.		
"	"	The Work Mining Co., Colorado Springs, Colo., J. Beshars, pres't., H. E. Bassett, sec'y., H. C. Mills, treas., J. L. Deed, mgt., Cap. stk. \$1,250,000. Eight claims, gold. Shaft, tunnel, refractory, hand, developing. H. S. Chey's, supt.		
"	"	The World Mining & Milling Co., Denver, Colo., Dr. J. L. Rock, pres't., A. H. Dwyer, sec'y., Robert Smith, treas., F. F. Metlosky, mgt., Cap. stk. \$125,000. West Ave. Minnow and others, gold and silver. Shaft, tunnel, drift, refractory and free, hand. John Bryant, supt.		
"	"	The Yellow Jacket Mining & Milling Co., Pueblo, Colo., Harry Barnard, pres't., H. Williams, sec'y., J. A. Guyan, treas., Cap. stk. \$750,000. Yellow Jacket, gold. Shaft and tunnel, free, horse. Henry Brown, supt.		
Climax Ry. 75.	Boulder	Andre Morel, Gold and silver. Tunnel, drift, free, refractory, hand, developing.		
"	"	H. S. Niles & Sons, Gold Crown Silver Bell, Joe Dandy, gold and silver. Shaft, free, refractory, water, developing.		
Cody Ry. Carbon 26 mi.	Golden	The Bear Mountain Mining & Milling Co., Aspen, Colo., C. Garcon, sec'y., W. Porter, sec'y. and treas., J. E. Schellard, sec'y. and treas., Cap. stk. \$200,000. Three claims, gold and silver. Tunnel, refractory, hand, developing. H. P. Benson, supt.		
"	"	Black Eagle Consolidated Mining Co., Aspen, Colo., Room 1 Wheeler Opera House Block, Henry R. Wood, mgt. and treas., Cap. stk. \$200,000. Black Eagle, silver. Shaft, free, horse, hand. J. W. Walling, supt.		
"	"	Elk Mountain Silver Mines Co., Chaffee, Colo., Mr. R. Barney, pres't., A. McVay, sec'y., M. L. Coffin, treas., James Fisher, mgt. and supt., Cap. stk. \$200,000. Elk Mountain, silver and lead. Tunnel, 100 tons, horse, developing.		
"	"	Mineral Point Mining Co., Avondale, Kan., J. H. Hoffman, pres't., J. H. Hoffman, sec'y. and treas., Cap. stk. \$500,000. Azatlin, Barry, silver, lead and copper. Tunnel, shaft, free, hand. John Wallis, supt.		
"	"	The Sheep Mountain Tunnel & Mining Co., Aspen, Colo., B. S. Phillips, pres't. and mgt., Geo. C. Dea, sec'y. and treas., Cap. stk. \$200,000. Gold, silver, lead and copper. Tunnel, 500 tons, free, water, electricity. B. L. Peterson, supt.		
Cumbres Ry. 215.	Concepcion	J. C. Bradley & Co., J. C. Bradley, pres't. and sec'y., G. W. Chase, treas., on Elmer, Cap. stk. \$200,000. North Star, gold and silver. Tunnel, 50 tons, refractory, free, hand. J. A. Dumas, supt.		
Custer mot a P.O. Ry. Rockvale 26 mi.	Custer	Jeff Steele Mining Co., De la, Colo., J. and L. Central Block, John H. Voorhees, pres't., J. H. L. Schellard, sec'y., F. A. Skoane, treas., Cap. stk. \$750,000. Franklin, gold, silver, lead and copper. Tunnel, shaft, refractory, horse, developing.		
Dillon Ry. 215, 775.	Summit	John Beasley, Maryland, gold. Placer, hand.		

GOLD AND SILVER—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS	AND	COUNTY	
Dillon	Summit		James H. Ryan, Baltimore, Blind Tom, Jessie, War Eagle, gold, silver and lead. Tunnel, 75 tons; free; hand. W. H. Fish, supt.
"	(Continued.)	"	"
"	"	"	Salt Lick Mining Co., Breckenridge, Colo., Cap. stk. \$10,000. Salt Lake, gold. Placer, open, 200 tons; free; water. Ed. Carter, supt. and mgr.
Dumont	Clear Creek		Capital Mountain Mining, Tunnel & Milling Co., Thos. A. Ireland, prest.; Philip R. Stanhope, secy.; Wm. L. Ireland, treas. Cap. stk. \$500,000. Senator, "H. H.," gold and silver. Tunnel, shaft, 150 tons; refractory; steam; 15 stamps. Philip R. Stanhope, mgr. and supt.
"	"	"	B. Edwards, A. H. Koren, Dr. Lemminger, Chicago, Ill., 108 E. Randolph st. Big Dipper, gold. Shaft and tunnel; refractory (developing).
"	"	"	The Lee Gold & Silver Mining Co., New York City, 45 Broadway. J. B. Herbert, prest. and mgr.; Lindley Murray, secy. and treas. Cap. stk. \$250,000. Lee, silver, gold, lead and copper. Shaft, tunnel; refractory. E. S. Herbert, supt.
"	"	"	R. G. Morrison. Phosphate, Rustie, silver, gold and lead. Tunnel; refractory (developing).
Durango	La Plata		E. S. Reed & N. L. Twitchell. Charlie Ross, silver. Tunnel; hand.
"	"	"	J. S. Sheek, Hesperus, Colo. Cap. \$2,000,000. Southern Boy and others, gold and silver. Shaft, tunnel; refractory; hand (developing).
Edwards	Eagle		Hockett & Wright. Hillside Group, Great Western, gold, silver and lead. Shaft, tunnel, hand. D. E. Wright, supt.
Empire	Clear Creek		Headlight Mining & Milling Co., Colorado Springs, Colo., P. O. Box 211. L. J. Woodworth, prest.; M. T. Hale, secy.; C. M. Tree, treas. Cap. stk. \$100,000. Headlight, gold and silver. Shaft, tunnel; free; steam. A. J. Denton, mgr. and supt.
"	"	"	F. L. Peck, Gold Dirt, Dunderberg, Atlantic, gold. Shaft, tunnel; free; steam. F. L. Peck, supt.
"	"	"	D. A. Sherwood & Son. Golden Chariot, Golden Era, gold and silver. Tunnel, shaft, 600 tons; free; hand. D. A. Sherwood, supt.
Eureka	San Juan		James A. Chapman, Lake City, Colo. Golden Cham, gold. Tunnel; refractory (developing).
"	Silverton 215.	"	"
"	"	"	Rasmus Hanson. Sunnyside Extension, silver, gold and lead. Tunnel, 5,000 tons; free; refractory; steam; 20 stamps.
"	"	"	F. W. Harlow & M. M. Engleman. Cap. \$5,000. Lake Lode, gold and silver. Shaft, open; free; refractory; hand. F. W. Harlow, supt.
"	"	"	Sunnyside Mining & Milling Co., Montrose, Colo. E. L. Osborn, mgr. Sunnyside, Republic, Little May, Climax, gold, silver and lead. Tunnel, shaft, free; water, steam, 10 stamps. F. S. Thompson, supt.
Fairplay	Park		Emmon Mining Co., Denver, Colo., 44 Jacobson Bldg. Geo. F. Batchelder, prest.; F. R. Miller, secy.; Fred Dick, treas.; Scott Webster, mgr. Cap. stk. \$2,000,000. Silver and lead. Shaft, drift, 15,000 tons; refractory; steam; concentrator. Samuel Howe, supt.
Fall Creek	San Miguel		Mt. Wilson Gold & Silver Mining Co., Placerville, Colo. E. C. Sherwood, prest.; O. T. Sherwood, secy. and treas. Cap. stk. \$800,000. Silver, lead and others. Tunnel, 150 tons; refractory; hand. J. T. Wanne-maker, mgr. and supt.
Fairplay	Park		O. Granstrom & Co. Red Cloud, gold. Tunnel and shaft, free; mill (developing).
"	Ry. Jefferson 776 (7 m.)	"	"
"	"	"	C. H. Pike. Blue Light, silver and lead. Tunnel, shaft, free; hand (developing).
"	"	"	Seven-Forty Consolidated Mining Co., Denver, Colo., Denver Club Bldg. E. R. Hallack, prest.; W. E. Huntington, secy. and treas.; J. C. Lewis, mgr. Cap. stk. \$500,000. Seven-Thirty and Silver Queen, gold, silver, copper, lead. Tunnel, 600 tons; free; hand. C. H. Pike, supt.
Florissant	El Paso		Anchona Leland Mining & Milling Co., Colorado Springs, Colo. Irving Hobbert, prest.; A. Sutton, secy.; J. O. Plumb, treas.; H. A. Watson, mgr. and supt. Cap. stk. \$800,000; indv. cap. \$25,000. Gold, silver, shaft and tunnel, refractory and free, horse.
"	"	"	Creech & Cripple Creek Mining & Milling Co., Colorado Springs, Colo. R. W. Anderson, prest.; H. E. Bassett, secy.; D. P. Sell, treas. Cap. stk. \$800,000. Gold (developing).
"	"	"	Virginia "M." Mining Co., Colorado Springs, Colo. B. H. Bryant, prest.; D. M. Sells, secy.; E. W. Sells, treas.; W. A. Walsh, mgr. Cap. stk. \$100,000. Lincoln, Midland, gold, silver, copper, lead. Shafts and drifts; refractory, free, 25 stamps.
Frisco	Summit		Gold Mint Mining Co., Denver, Colo. Geo. W. Bowman, prest.; Jno. C. McCoy, secy.; Geo. H. Raymond, treas. Cap. stk. \$100,000. Gold Mint, gold. Shaft, tunnel, free; water, 10 stamps. E. T. Howell, supt.
Fulford	Eagle		Bartholt Bros. Polar Star Group, gold. Tunnel, slope, 15,000 tons; free; steam; mill. E. H. Bartholt, supt.
"	(Continued.)	"	"
"	"	"	John Beauman & Jos. Domandeli. Lucy and Golden Bell, gold. Tunnel, shaft, 2,000 tons; free; hand; 10 stamps. Jos. Domandeli, supt.
"	"	"	Fulford Mining Co., Eagle, Colo. H. B. Fulford, prest.; E. J. Fulford, secy.; E. W. Fulford, treas.; A. L. Fulford, mgr. and supt. Toronto, gold, silver. Tunnel, free; horse.
"	"	"	B. S. Morgan & McSmith. Adelaide and Gold Dust Groups, gold, silver, copper. Tunnel, 100 tons; free; 10 stamps.
Gamble Gulch	Gilpin		Blaine Gold Mining Co., Jessiers, Denver, Colo. Cap. stk. \$100,000. Blaine Group, gold, silver. Tunnel, free; steam, 15 stamps. Jos. A. Gilmore, supt.
"	P. O. and Ry. Black Hawk 776 (8 m.)	"	"
Gardner	Huerfano		J. G. Taylor. Grand View No. 2 and Little Pittsburg, gold, silver, lead and copper. Tunnel, hand.
"	Summit 215 (20 m.)	"	"
Gaskill	Grand		Colorado & Kentucky Mining & Smelting Co., Louisville, Ky., Merchants' National Bank. J. H. Lindenberger, prest.; Everett M. Hermon, mgr. and supt. Cap. stk. \$300,000. Hidden Treasure, Excelsior and Silver Queen, silver. Tunnels; refractory.
"	P. O. Grand Lake, Ry. Georgetown 776 (60 m.)	"	"

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINTS.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
Georgetown, Clear Creek Ry. 776.	Baltimore Mining & Milling Co., Denver, Colo., 1306 Eighteenth st., John Fillins, pres., and mgr., William H. Emanuel, secy., and treas., Cap. stk. \$500,000. Baltimore Tunnel, silver, lead. Tunnel, shaft, steam, Geo. Myers, supt.
" "	Colorado Central Consolidated Mining Co., New York. Paul Lichtenstein, pres., W. F. Mantus, secy., J. K. Creevey, treas., Ernest L. Foster, mgr. and supt. Cap. stk. \$2,750,000. Colorado Central, silver, lead. Tunnel, shaft, 1,500 tons, water.
" "	Essex Free Coinage Mining Co., Golden, Colo., P. O. Box 95. F. W. Rogers, pres. and mgr., F. W. Rogers, secy., and treas., Cap. stk. \$250,000. Triumph, silver. Shaft, refractory, developing.
" "	Gold Hill Mining Co., Brockton, Mass., Lowell M. Reynolds, pres., Frank L. Angerer, secy., O. A. Rollins, treas., J. S. Allen, mgr. and supt. Cap. stk. \$1,000,000. Gold Hill, gold and silver. Tunnel, refractory, hand.
" "	H. M. Griffin, 604 Second st., Seven Thirty Group, 30 claims, gold, silver, lead and zinc. Shaft, tunnel, refractory, steam. Alfred Hedberg, supt.
" "	Hamilton Gold & Silver Mining Co., St. Louis, Mo. Hamilton Daughaday, pres., F. J. Casey, secy., S. Dodd, treas., David Kennedy, mgr. and supt. Cap. stk. \$500,000. Hamilton, gold, silver, copper. Shaft, 1,500 tons, refractory, steam.
" "	Montrose Gold & Silver Mining Co., Georgetown, Colo. E. R. Strong, pres., Guy F. Cole, secy., J. D. Clapp, treas., J. J. Nichols, mgr. and supt. Cap. stk. \$700,000. Montrose and West Elk Van Winkle, silver, lead. Tunnel, refractory.
" "	Mt. McBeth Mining Co. Ltd., London, England. Douglas A. Onclows, chairman, J. F. Webb, secy., H. M. Griffin, mgr. Cap. stk. \$1,000,000. Stevens, gold, silver, lead and zinc. Shaft and tunnel, refractory, Thomas W. Jones, supt.
" "	E. G. Naylor, 6500 E. Pooman, Bilton and Red Jacket, silver, gold. Shaft and tunnel, hand, horse.
" "	Chas. R. Nish, Vice President, silver, lead. Tunnel, 115 tons, free, hand. J. M. Copeland, supt.
" "	Silver Glance Mining Co., James F. Turkey, pres., Fred P. Dewey, secy., treas. and mgr. Cap. stk. \$750,000. Silver Glance, silver, lead. Shaft, 55 tons, free, steam.
" "	E. S. Willis, Matilda Fletcher, silver, lead. Tunnel, 50 tons.
Gilman Ry. Rock Creek 215.	Gilman Mining Co. W. F. Vincent, mgr. Gilman, gold, silver, lead. Tunnel, shaft, 60 tons, free, horse.
" "	L. W. Vincent, Combined Discovery, silver, lead. Tunnel, 1,000 tons, free.
" "	E. A. Reynolds, Canon City, Colo., Fremont County Rank. F. A. Reynolds, pres., L. E. McGee, secy., L. E. Walker, mgr. and supt. Ben Butler, gold, silver. Tunnel, shaft, 60 tons, free, steam.
Glenwood Spgs., Garfield Ry. 26, 215.	Grant & Murphy, Washington, silver, lead and iron. Shaft, tunnel, slope, horse and hand, 60,000 tons. Richard Grant, supt.
" "	Oasis Mining Co., Sidney Broughton, pres., J. T. Williams, secy., G. B. Jones, treas., J. H. Preece, mgr. and supt. Cap. stk. \$100,000. Royalza and Gemini open, gold and silver. Tunnel, free, horse.
Gothie, Gunnison Ry. Crested Butte 215.	Moss Rose Mining Co., Atchison, Kan. Moss Rose No. 2, silver. Tunnel, refractory, hand. Edwin A. Sperry, supt.
Grand Lake, Grand Ry., Georgetown 776 36 miles.	Grand Lake Mining & Smelting Co., Quincy, Ill. J. E. S. Haff, pres., J. E. Haff, secy., F. W. Myer, treas., Cap. stk. \$2,500,000. No. 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. Tunnel and shaft, 500 tons, refractory, hand.
" "	Robert C. Graves, Cap. \$5000. Last Hope, gold. Shaft, 500 tons, free, horse.
" "	Clyde W. King, Cap. \$2,500. Jimmy, gold. Shaft, 50 tons, free, horse.
" "	J. N. Pottingell, Savage, silver, lead. Shaft and tunnel, refractory, developing.
" "	J. F. Wescott, Iron King and Nabob, gold, silver. Tunnel, free, hand.
Granite, Chaffee Ry. 26, 215.	Twyn Lakes Hydraulic Gold Mining Syndicate, Ltd., London, England. Norman Smith, pres., Vere Herbert Smith, secy. and treas., R. Stanley Russell, mgr. and supt., Twyn Lakes Placer, gold. Placer, hydraulic.
Gunnison, Gunnison Ry. 215.	Madison Mining & Milling Co., D. B. Cherry, pres., C. J. Sells, secy., L. S. Farris, treas., J. C. Behm, mgr. Cap. stk. \$500,000. Noah and Golden Age, gold. Shaft, tunnel, 5000 tons, steam, water, mill.
Hahn's Peak, Routt Ry. Rawlins, Wyo. 776.	D. Miller, Gold, Placer, water.
Hesperies, La Plata Ry. 625 (10 miles.)	Hedelman & Lewis, Durango, Colo. Cap. \$100,000. Eagle Pass, gold, silver. Tunnel, shafts, 50 tons, refractory, hand, 10 stamps. J. F. Hedelman, supt.
" "	James G. Sheek, Silver Belle, Tunnel, 2000 tons, free, hand.
Hillside, Fremont Ry. Cotopaxi 215.	A. W. Coale & F. R. Hanna, Gem Jewel and Gem Faber, gold, silver, platinum and nickel. Shaft, tunnel, hand, concentrator. A. W. Coale, mgr. and supt.
Horseshoe, Park Ry. Fairplay 776 14 mi.	Globe Mining & Milling Co., Denver, Colo., rate of Globe Smelting Co., A. Chamite, pres., D. Shesay, A. prest., J. M. Walker, secy. and treas., Cap. stk. \$200,000. White and Catherine, silver and lead. Shaft and tunnel, 500 tons, refractory, steam, concentrating mill, 60 tons. J. L. Toombs, supt.
" "	N. L. Gibson & W. H. Foxless, County Line, silver and lead. Open cut and shaft, 60 tons, free, hand.
" "	Mrs. Henrietta J. Work, Deathless, silver, lead. Tunnel, free, horse. G. A. Hahn, mgr. and supt.
Howard, Fremont Ry. 215.	Charles Chavers, New Discovery and Copper King, silver and copper. Shaft, refractory.
Howardsville, San Juan Ry. Silverton 215.	The Pledge of Louisville, Louisville, Ky., 119 Third st., John W. Lucas, pres., R. H. Bacon, secy., and treas., Cap. stk. \$1,000,000. Rochester, Progressive, Outlook, etc., gold, silver, lead, copper. Tunnel, hand. John Nefferton, mgr. and supt.
" "	Louisa M. Abbott Mining Co., Denver, Colo., 846 Equitable Bldg., Olive Wright, pres., Nellie Rugg, secy., Libbie Martin, treas., Cap. stk. \$200,000. Geneva, gold. Free developing.

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	COUNTY		
Idaho Springs, Clear Creek Ry., 776.		The Argonaut Consolidated Mining & Milling Co., Denver, Colo., Room 10 Jacobson Bldg., G. D. Johnson, prest. and mgr., Max Baer, secy. and treas., Cap. stk. \$1,000,000. Twenty-five-lode claims, 3 operating, gold, silver, lead. Shaft, tunnel, 100 tons, refractory, steam. G. D. Johnson, supt. Mine 7 miles from Ry.	
"	"	Commonwealth Mining Co., John Cochran jr., prest., Thos. B. Bryan, secy.; Allen B. Wisley, treas.; Geo. A. Chipman, mgr., Cap. stk. \$100,000. Little Matthe, Great Republic, etc., gold, silver, lead. Shaft, refractory; concentrator. Angus Sutherland, supt.	
"	"	Constock Gold-Silver Mining & Milling Co., Denver, Colo., Room 7 Essey Bldg., S. C. Fulton, prest., W. P. Canthers, secy.; James W. Clarke, treas.; Thomas Woodward, mgr. and supt. Cap. stk. \$500,000. Constock, gold and silver. Shaft, refractory; steam.	
"	"	The Edgar Union Mining Co., James Robson, prest.; J. H. Wright, secy.; Robert Turner, mgr. and supt. Cap. stk. \$300,000. Edgar Union, Fulton, Humphry, Constock, gold, silver. Shaft and drift; refractory, steam.	
"	"	A. P. Fonda & Chas. Stinson, Kansas City, Mo., 707 New York Life Bldg. Gen. gold, silver. Tunnel, 100,000 tons; free.	
"	"	Gold Bar Mining & Lode Co., Denver, Colo., 1543 Lawrence st., G. W. Enright, prest. and mgr. and supt.; J. H. Means, secy. and treas. Cap. stk. \$300,000. Gold bar, gold. Placer, free; water.	
"	"	Hinard & Hudson, New York, 191 Fulton st. Lamartine, gold, silver, lead. Shaft, 3,000 tons; refractory, steam. Silas Hanchett, supt.	
"	"	Iron Duke Mining Co., Denver, Colo., 194 Washington av., Wesley Lyons, prest.; S. C. Jackson, secy.; R. A. Wagner, treas. Washington Johnson, mgr. and supt. Cap. stk. \$50,000. Iron Duke, Hamilton, Jackson and Brown, gold, silver. Shaft and tunnel, 500 tons; refractory, free; horse; 5 stamps.	
"	"	The Kohlnor & Donahill Mining Co., Ltd., George Hopkins, prest., W. H. Rowe, secy. and treas. Champion, Donahill, Kohlnor, gold, silver, copper. Free and refractory, steam, water, 50 stamps. Geo. S. Vivian, mgr. and supt.	
"	"	May Flower Mining & Milling Co., Minneapolis, Minn., Washington Bank, C. O. Nash, prest.; E. Davis, secy.; O. E. Brecker, treas. Cap. stk. \$1,000,000. May Flower, gold, silver. Shaft, 5,000 tons; refractory, steam; concentrator. A. H. Koren, supt.	
"	"	P. Mysel, Charissa, gold, silver. Shaft; free; steam, 10 stamps.	
"	"	Powell Mining Co., Denver, Colo., 100, 111 Boston Bldg., A. W. Powell, prest., H. A. Wimbush, secy. and treas., Fred Hills, mgr., Cap. stk. \$250,000. Ben. Franklin, Uncle Sam and 4 others, gold and silver. Tunnel, 2,500 tons, free, hand. N. A. Wimbush, supt.	
"	"	Estate of Jo. Reynolds, Jo. Reynolds, gold, silver, lead. Shaft, tunnel, 834 tons, refractory; steam. J. E. Chester, mgr. and supt.	
"	"	The Salisbury Mining and Milling Co., John York, prest.; Samuel H. Cregar, secy. and treas. Cap. stk. \$50,000. Salisbury, gold, silver. Shaft, tunnel, 500 tons, refractory, steam, concentrator. Chas. A. Gehrmann, mgr. and supt.	
"	"	The Stanley Mining Co., John York, prest.; Samuel H. Cregar, secy. and treas. Cap. stk. \$50,000. Stanley, gold, silver. Tunnel, shaft, 500 tons, refractory, steam. Chas. A. Gehrmann, mgr. and supt.	
"	"	Tramway Mining & Milling Co., Denver, Colo., cor. Ellsworth and S. Water sts., Thomas L. Roberts, prest. and mgr., E. Buchler, secy.; O. G. Smith, treas. Cap. stk. \$300,000. Gen. Dog Tray, Tom Kirby and 4 others, gold, silver, lead. Shaft, tunnel; free; horse. Samuel Marchington, supt. (Developing.)	
"	"	Treasure Vault Gold & Silver Mining Co., Milwaukee, Wis., 405 Milwaukee st., John E. Burton, prest. and treas., Stoddard H. Martin, secy. Cap. stk. \$1,000,000. Treasure Vault, gold, 70 tons, free, hand. Geo. A. Hamilton, mgr. and supt.	
Trouton Ry., 215.	Ouray	Candee Mining & Milling Co., Clearfield, Pa., Hon. W. A. Wallace, prest.; Thos. L. Wallace, treas. Candee, gold, silver. Shaft, 100 tons; steam. L. H. Kreib, mgr. and supt.	
"	"	La Plata Mines, Ltd., London, Eng., 11 Poultry st., E. C. Henry Richards, secy., Philip Argall, mgr. Cap. stk. \$2,000,000. White Cloud, silver. Shaft, steam; developing. John R. Mitchell, supt.	
"	"	Midnight Mining Co., Ouray, Colo., Sam. W. Gregory, prest.; Geo. H. Keen, secy.; Alfred E. Keet, treas. Cap. stk. \$300,000. Midnight, Daylight, silver, gold, lead, 2,500 tons, free; steam. P. J. Holmgren, supt.	
"	"	The Mine Owners' Trust, London, Eng., 11 Poultry st., E. C. Henry Richards, secy., Philip Argall, mgr. Cap. stk. \$150,000. Several prospects developing. John R. Mitchell, supt.	
"	"	Saratoga Mining Co., St. Louis, Mo., 417 Olive st., E. C. Simmons, prest.; W. K. Spinney, secy.; Geo. L. Allen, treas. Cap. stk. \$1,000,000. Saratoga, gold, silver. Tunnel, refractory, steam. L. R. Fry, supt.	
Irwin Ry., Crested Butte 215 (15 miles.)	Gunnison	Forest Queen Mining Co., F. W. Fuller, prest. and mgr., R. F. Woodward, secy. Cap. stk. \$100,000. Forest Queen, gold, silver. Shaft, tunnel, refractory, steam, water. F. W. Fuller, supt.	
"	"	The Ruby King Mining Co., Colorado Springs, Colo., Room 20 Bank Bldg., Louis R. Ehrlich, prest.; Frank White, secy.; Lewis A. C. Will, treas.; Frank G. White, mgr. Cap. stk. \$1,000,000. Ruby King, Republic, silver, gold. Shaft, tunnel. John Koons, supt.	
Jackson Ry., Gunnison 215.	Gunnison	Capt. M. W. Chas. Brutus, Sheila Queen and others, gold, silver. Tunnel; refractory, free, hand.	
James town Ry., Boulder 776. 14 miles.	Boulder	H. C. Albertson & Wm. Brown, Cap. \$100,000. Baltimore Belle, gold. Shaft. H. C. Albertson, supt.	
"	"	G. J. Evans, Silver Lodge, gold, silver. Shaft and tunnel, refractory. Walter Clemens, supt.	
"	"	Goldard & Brown, Bucho, gold. Shaft, tunnel, 600 tons, refractory; horse.	
"	"	Golden Age Mining & Milling Co., Robert F. Harrison, prest. and mgr., Wm. E. Harrison, secy.; John W. Tullis, treas. Cap. stk. \$1,000,000. Golden Age, gold, silver. Shaft and tunnel, free and refractory; steam, 25 stamps. Wm. E. Harrison, supt.	
"	"	O. N. Heckmann, Cap. stk. \$500,000. Maud S. and Star Groups, gold, silver, copper. Tunnel, refractory. W. W. Emmett, supt.	

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
James-town		Boilder	Mountain Chief Mining & Milling Co., Denver, Colo., 5 and 6 Steele Block. Dr. J. R. Van Allen, v. pres.; C. A. Mead, secy. and treas.; A. J. Denton, mgr. Cap. stk. \$100,000. Mountain Chief group, gold, silver. Shaft, tunnel, refractory, hand. R. H. Paige, supt.	
"		"	Wylie Mining & Milling Co., Denver, Colo., 929 Seventeenth st. Judge O. N. Hilton, pres.; L. E. Devitt, secy. and treas.; O. E. Du Bois, mgr. Cap. stk. \$300,000. King Wilhelm, Redger, Noble Ella, gold, silver. Shaft, refractory, free, horse. O. E. Du Bois, supt.	
Jimtown		El Paso	Cleopatra Mining Co., Colorado Springs, Colo., 17 E. Pike's Peak av. A. A. McTavney, pres.; A. J. Law- ton, secy. and treas.; F. H. Crawford, mgr. Cap. stk. \$200,000. Cleopatra, New Discovery, silver. Shaft, tunnel, free, horse, hand, developing. John W. Blades, supt.	
"		"	The Missouri Pacific Mining Co., Denver, Colo., 128 Seventeenth st. W. G. Bausenier, pres.; W. E. Perkins, secy.; C. W. Willett, treas.; L. M. Keffer, mgr. and supt. Cap. stk. \$300,000. Dakota, Idaho, Wyo- niz and others, silver. Shaft, tunnel, hand.	
Kisselville		Conchos	Jack Gray Mining Co., Osage, Colo. P. Lahoy, pres.; Wm. Morgan, secy.; John Munson, treas.; Wm. J. O. Osier, Ry. Sub- lette 215. Jenkins, mgr.; Cap. stk. \$50,000. Rough and Ready, silver, lead. Tunnel, 26 tons, refractory, hand. J. J. Mercer, supt.	
Lake City		Hinsdale	Capital City Mining Co., Thomas B. Hannah, pres.; Geo. P. Dunham, secy. and treas.; Capital Nos. 1 and 2 and Lilly, gold, silver, lead. Tunnel, 350 tons, steam. J. F. Hertzinger, mgr. and supt.	
"		"	M. Dempsey, Cherokee, silver, gold. Shaft, tunnel, refractory, hand, developing.	
"		"	Golden Fleece Mining Co., Geo. W. Pence, secy. and treas. Henry Monell, supt. Golden Fleece, gold, silver. Tunnel, refractory, water.	
"		"	Leeward & Rowan, Broker, gold, silver, copper, lead. Shaft, developing.	
"		"	Ute & Ute Mines, Ltd., London, Eng. Ute and Ute, silver and lead. Shaft and tunnel, steam.	
"		"	Yellow Medicine Syndicate, R. L. McCormick, pres.; W. J. Elmendorf, mgr. and supt. Yellow Medicine, gold, lead. Tunnel, refractory.	
Lamar		Clear Creek	Ute Chief Mining Co., Denver, Colo., 475 and 485. M. L. Cox, pres.; Frank Russell, secy. and treas.; Fred A. Cox, mgr. Cap. stk. \$300,000. Lost Treasure, American Lady, silver. Shaft, refractory, horse. Fred A. Cox, supt.	
La Veta		Chitiano	Flood & Graham, Standard, silver. Tunnel, free, hand.	
"		"	G. W. Graham, Elbe Redden, silver, gold, copper. Shaft, free.	
"		"	G. W. Graham & F. Flood, Standard, gold and silver. Shaft, free.	
"		"	G. W. Graham & Co., London, Eng. and silver. Shaft, free, developing.	
"		"	Ireland Bros. & Kane, Colorado, silver. Shaft, refractory, hand. Charles Ireland, supt.	
"		"	Kane & Ireland, Cap. \$200,000. Colorado, silver, lead. Shaft, tunnel, free, hand. F. W. Kane, supt.	
"		"	Morse, Clifford & H. S. Pessy, Ontario, gold, silver, lead. Shaft, developing.	
"		"	Pine Grove Mining & Milling Co., J. H. Indore, pres.; G. W. Kelly, secy.; J. Chum, treas.; J. S. Wells, mgr. and supt. Cap. stk. \$200,000. Little Domingo, gold, silver. Tunnel, free, hand, developing.	
"		"	Setton & Stone, Gold, silver and iron. Tunnel, refractory and free. C. R. Stone, supt.	
"		"	Silver Mountain Mining & Milling Co., W. B. Tuttle, pres.; J. M. Jones, secy. and treas.; A. H. Ireland, mgr. and supt. Cap. stk. \$300,000. Troy, Blanche, gold and silver, lead. Tunnel, shaft, free, hand.	
"		"	Some Isot Mining & Milling Co., Denver, Colo., Rooms 1-10, Bldg. Henry A. Chelson, pres.; Geo. J. Humbert, secy. and treas.; Thomas McHenry, mgr. Cap. stk. \$200,000. Some Isot, gold, silver, lead. Tunnel, placer, refractory, hand. F. J. McHenry, supt.	
Lawrence		El Paso	Edwin Budd Gold Mining & Milling Co., Denver, Colo., Rooms 1-10, Bldg. and Opera House. Peter McCourt, pres.; L. R. Vesper, secy. and treas.; J. R. Vesper, mgr. and supt. Archangel, Vita and others, gold. Shaft, free, 40 stamps.	
"		"	Hortense L. Mining Co., Thomas G. Cooke, pres.; S. M. Root, secy. and treas.; J. L. Bates, pres.; W. F. Holmes, mgr. Cap. stk. \$200,000. Hortense, gold, silver, lead. Shaft, tunnel, free, hand, developing. Thomas Watson, supt.	
"		"	Lauritzen Mining & Milling Co., J. L. Newman, pres. and mgr.; S. S. C. Garfield, secy.; R. S. Fox, treas.; Cap. stk. \$200,000. Tombstone, Tish and 5 others, gold, silver. Shaft, tunnel, 600 tons, 2000 bars, free, hand, horse. J. J. Fox, supt.	
"		"	J. R. McKinnis, Cap. \$100,000. Granite, Elbe, Diamond, gold, silver. Shaft, tunnel, free, hand, steam, 20 stamps, developing.	
"		"	Mc Rosa Mining & Milling Co., Colorado Springs, Colo. R. K. Walker, pres. and mgr.; G. S. Wilson, secy. A. H. Coffman, treas. Cap. stk. \$200,000. Mc Rosa, gold. Placer, free, water.	
"		"	National Belle Mining, Mining & Development Co., Fremont, Colo. James M. Parker, pres.; J. L. Steb- bins, secy. and treas.; Samuel Strong, mgr. and supt. Cap. stk. \$300,000. White Horse, Captain and others, gold. Shaft, tunnel, placer, refractory, free, hand.	
"		"	Opfer Mining Co., Colorado Springs, Colo. H. and H. N. Leeson, pres.; L. E. Hahn, pres.; L. E. Wells, secy. L. K. Pugh, treas.; A. K. Rutherford, mgr. and supt. Cap. stk. \$200,000. Carbonate, Queen, Dead Pine, gold. Shaft, refractory, free, hand, developing.	
"		"	Reyno Gold & Silver Mining & Milling Co., Colorado Springs, Colo. Dr. F. H. Weaver, pres.; W. E. C. secy.; Abe Banta, treas.; J. M. Bates, mgr. and supt. Cap. stk. \$200,000. Reyno, gold. Placer, 200 tons, and others, gold, silver. Shaft, placer, free, hand.	
Lawson		Clear Creek	American Standard Mining Co., Denver, Colo., R. K. Kirtledge, Bldg. L. M. Perkins, pres. and mgr.; Henry Seaton, secy.; John H. Bowman, mgr. Cap. stk. \$500,000. American Standard, B. and Gold, gold, silver. Shaft, tunnel, 100 tons, refractory, steam. John S. Gates, supt.	
"		"	The Belvidere Hudson Mining Co., Denver, Colo., Room 1, Kirtledge Bldg. H. L. McKinnis, pres.; L. M. Petridis, secy. and mgr.; William Harvey, Treas. Cap. stk. \$200,000. Belvidere, gold, lead. Shaft, tunnel, 100 tons, refractory, steam. Jacob W. Leitch, supt.	

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Lawson		Clear Creek	J. W. Hunter. Orient, silver. Shaft, 100 tons, 1000 steam.	
"		(Continued.)		
"		"	Livingston & Beaudry, Denver, Colo., 1300 Seventeenth St., Tabor and Gov. Thomas, silver, lead. Shaft, tunnel, 155 tons; refractory; steam. Edmund A. Beaudry, supt.	
Leadville	Lake	Boice Mining Co., New York, N. Y., 1 Broadway. H. B. Bennett, prest., C. A. Cameron, secy. and treas.; S. W. Mudd, mgr. Cap. stk. \$3,000,000. Gonabroil, lead, silver. Shaft; refractory; steam.		
"	"	"	M. Christmann et al., 328 E. Tenth St. M. Christmann, prest.; Oscar Christmann, secy. and treas.; James Kavanagh, mgr. Miners' College, gold, silver, lead. Tunnel; refractory; hand. Wm. Brecht, supt.	
"	"	"	Clara Mining & Milling Co., Leadville, Colo., 122 W. Eighth St., C. Hood, prest.; S. W. Mudd, secy. and treas. Cap. stk. \$1,000,000. Colorado Boy, Bob Shepherd, Esméralde, silver, lead. Shaft developing.	
"	"	"	The Col. Sellers Mining Co., W. F. Patrick, mgr. Col. Sellers, silver, lead. Shaft, 30,000 tons; refractory; steam. S. D. Nicholson, supt.	
"	"	"	Dundin Mining Co., 115 E. Eighth St., Woodward Emery, prest.; William Faxon, jr., secy.; James C. Elms, treas.; Walter F. Page, mgr. Cap. stk. \$2,000,000. Dundin, gold, silver, lead, fluxing iron. Shaft, tunnel, 12,000 tons; refractory; steam. J. T. White, supt.	
"	"	"	Evening Star Mining Co., New York, N. Y., 53 Broadway. W. B. Dickerman, prest.; Justin A. Edwards, secy.; H. K. McHarg, treas.; Ezra D. Dickerman, mgr. Cap. stk. \$500,000. Evening Star, silver, lead, iron. Shaft, 20,000 tons, steam. Perley Dodge, supt.	
"	"	"	Fall River & Colorado Mining & Milling Co., Fall River, Mass. H. F. Laroten, prest.; Chas. Bugbee, secy. and treas. Cap. stk. \$1,000,000. Goldsmith, gold, silver. Shaft; water; 10 stamps.	
"	"	"	First National Mining & Milling Co., Pueblo, Colo., Room 41 Grand Opera House. Col. A. W. Duggan, prest.; Aaron Sonneborn, secy. and treas.; A. W. Duggan, mgr. and supt. Cap. stk. \$1,000,000. First National, gold, silver and lead. Shaft, free and refractory; steam developing.	
"	"	"	The Golden Eagle Mining Co., Harrison av., Quincy Block. Robt. B. Estey, prest.; C. C. Kellogg, secy. and treas. Cap. stk. \$500,000. Gold, silver. Shaft; free; steam.	
"	"	"	Chas. H. Graham & M. Guggenheim. Chas. L. Hill, mgr. A. V. Minnie, silver, lead, zinc, iron. Shaft, tunnel, 30,000 tons; refractory; steam. Peter Murray, supt.	
"	"	"	The Henriett & Maid Consolidated Mining Co., cor. Fifth and Harrison sts. D. H. Moffat, prest.; G. E. Bass, Lewin, secy. and treas.; Eden Smith, mgr. Cap. stk. \$1,500,000. Gold, silver, copper, lead, iron. Shaft, 55,000 tons; refractory, free, steam, electricity. J. J. Brown, supt.	
"	"	"	Iron Silver Mining Co., Ashley Pond, prest.; Freeman Woodrill, secy.; John Nield, treas.; W. Ames, mgr. and supt. Cap. stk. \$1,000,000. Iron Silver, silver, lead. Shaft; refractory; steam, electricity.	
"	"	"	La Plata Mine Co., London, Eng. J. T. Hopwood, prest.; Henry Richards, secy.; Philip Arzall, mgr. Cap. stk. \$500,000. La Plata, silver, lead. Shaft, 4,500 tons; steam.	
"	"	"	Lawrence, Hazlett & Co., Robt. H. Hazlett, mgr. Mahalan, silver. Shaft, 20,000 tons; refractory, steam. Chas. Grimm, supt.	
"	"	"	Leadville Consolidated Mining Co., New York, N. Y., 1 Broadway. Peter A. Hegeman, prest.; C. A. Cameron, secy. and treas.; S. W. Mudd, mgr. and supt. Cap. stk. \$1,000,000. Carbonate, silver, lead. Shaft, 2,000 tons, refractory; steam.	
"	"	"	Jesse F. McDonald & Fred G. Bulkley. Cap. \$200,000. Petrosé, silver, gold. Shaft, 20,000 tons, refractory; steam, electricity.	
"	"	"	Morning Star Consolidated Mining Co., New York, N. Y., 53 Broadway. W. B. Dickerman, prest.; Justin A. Edwards, secy.; H. K. McHarg, treas.; Ezra D. Dickerman, mgr. Cap. stk. \$1,000,000. Morning Star, silver, lead. Shaft, 7,500 tons, steam. Perley Dodge, supt.	
"	"	"	Seneca Mining Co., Pueblo, Colo., care of Colorado Smelting Co. R. Eilers, prest.; R. D. Dwight, v. prest.; W. H. Aldrich, secy. and treas.; S. F. Parish, mgr. and supt. Cap. stk. \$100,000. Seneca, silver, lead. Shaft, refractory; steam.	
"	"	"	Small Hoopes Consolidated Mining Co., New York, N. Y., 1 Broadway. R. C. McCormick, prest.; C. A. Cameron, secy. and treas.; S. W. Mudd, mgr. and supt. Cap. stk. \$500,000. Forest City, Robert Emmet, silver. Shaft, 25,000 tons, free, steam.	
"	"	"	Star of Hope Mining Co., John P. Jones, prest.; W. A. Carr, secy. and treas.; A. V. Bohm, mgr. Cap. stk. \$250,000. Star of Hope, silver. Shaft developing.	
"	"	"	Union Leasing & Mining Co., Denver, Colo., Room 6 Jacobson Bldg. F. L. Bellan, prest.; J. E. Price, secy. and treas.; Robt. B. Estey, mgr. Cap. stk. \$500,000. El Paso, Olive Branch and others, silver, lead. Shaft, steam developing.	
"	"	"	White Cap Mining Co., L. K. Hamilton, prest.; W. C. Hamilton, secy.; A. C. Merlman, treas. Cap. stk. \$500,000. White Cap, Ocean Wave, gold, silver, lead. Shaft, 5,500 tons, refractory; steam. Jas. A. Shinn, supt.	
Leadville	Pitkin	Woody & Silver Creek Mining Co., Aspen, Colo. Henry Todd, prest.; J. N. Porter, secy. and mgr. Cap. stk. \$2,000,000. Eighteen claims, silver and lead. Tunnel, refractory, hand. Wm. Williams, supt.		
Lincoln City	Summit	Clark & Reithmann. Spring, gold, copper, iron, lead. Shaft, refractory, free; steam. C. P. Clark, supt.		
"	By Breckenridge 776.			
Magnolia	Boulder	Augusta Mining Co., Boulder, Colo. Augusta, gold, silver. Shaft, 2,000 tons, refractory; horse. Wm. H. Barber, supt.		
"	"	"	C. Stowell & W. Lusk. Cumberland, gold. Shaft, refractory, hand. C. Stowell, supt.	
Mangos	Montezuma	C. E. Hawkins and others. Jumbo, Wilson, Wade and others, gold, silver, copper, lead. Tunnel, refractory, hand. J. J. Wade, supt.		
"	By 215.			
"	"		Saratoga Mangos Gold Mining Co. F. W. Stubbs, prest.; R. W. Miller, secy. and mgr.; E. E. Humiston, treas. Cap. stk. \$200,000. Hypocrite, Golden Lake, Second Choice, gold, silver. Tunnel, refractory, hand. F. M. Brittain, supt.	

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND COUNTY		
Manhattan	Larimer	Atlantic Mining Co., Fort Collins, Colo. W. W. Sullivan, pres., F. S. Smith, secy., C. Ruzh, treas. Cap. stk. \$25,000. Atlantic, Arkansas, gold. Tunnel, free, mill.	
"	"	Bonanza King Gold & Silver Mining Co., Denver, Colo. 1122 Larimer st. Granville Mabeon, pres., Sanford Stork, secy., D. M. Machen, treas., R. F. Burnett, mgr. Cap. stk. \$500,000. Gold. Tunnel, free, water.	
"	"	Free Gold Mining Co., Fort Collins, Colo. T. J. Montgomery, pres. and mgr., Edward B. Hall, secy. and treas. Free Gold, gold. Tunnel developing.	
"	"	Relief Mining & Milling Co., Fort Collins, Colo. Sanford T. Hamilton, pres., Clark Moore, secy., A. W. Scott, treas., A. N. Hong, mgr. Cap. stk. \$250,000. Relief, Maggie, gold. Shaft, slope, steam.	
"	"	Seven Mile Mining & Milling Co., Fort Collins, Colo. A. H. Pratt, pres., J. R. Wills, secy., C. Ruzh, treas., R. F. Burnett, mgr. and supt. Cap. stk. \$25,000. Balmaceda, Lulu, Madock, Nora, gold. Shaft, free, steam, mill.	
Marble	Gunnison	H. W. Anderson & Co., H. W. Anderson, pres., Evan Williams, secy., Frank I. Jones, treas. Cap. stk. \$200,000. Eclipse, Prince of Wales and others, silver, lead. Shaft, tunnel, refractory. H. W. Anderson, mgr. and supt.	
"	"	Beardsley & McNall, Detroit, Mich. Silver, lead. Tunnel, refractory, free, developing.	
"	"	Orphan Boy Mining & Reduction Co., Denver, Colo. P. O. Box 2567. F. B. Curtis, pres., C. E. Curtis, secy., M. A. Panels, v. pres. and treas., A. M. Daniels, mgr. Cap. stk. \$1,000,000. Orphan Boy, Silver, Purse and others, silver, lead, copper. Shaft, tunnel, 300 tons, refractory, horse. A. M. Daniels, supt.	
"	"	The Scandinavia Mining Co., P. J. Ballstrom, pres., J. F. Phillips, secy., R. G. Carlisle, treas., Chas. Ballstrom, mgr. Cap. stk. \$200,000. Silver King, gold, silver, copper, lead. Shaft, tunnel, hand developing.	
"	"	Warrior Mining Co., Cincinnati, Ohio, 41 Pike's Bldg. C. W. Burke, pres., M. D. Burke, secy. and treas., Col. Samuel Bechtel, mgr. and supt. Cap. stk. \$300,000. Warrior Quartzite, silver, lead. Tunnel, shaft, free.	
Mayville	Charles	North Missouri Group Mining Co., F. B. Bowington, pres. and mgr. and supt. Thos. F. Nelson, secy. and treas. Cap. stk. \$250,000. North Missouri Group, silver and lead. Shaft, tunnel, refractory, hand.	
Mineral Point	San Juan	Silver Chond Mining Co., J. W. Cooper, pres., J. W. Gillman, secy., treas. and mgr. Cap. stk. \$50,000. Silver Chond, silver, lead. Tunnel, 300 tons, refractory, hand. Edward M. Brown, supt.	
"	"	F. B. McIntyre & Co., Jesses, Colo. 1 ton, silver, gold. Shaft, 125 tons, refractory, hand.	
"	"	The San Juan Coal Mining Co., New York, N. Y., 3 Broadway. J. F. Hill, pres., J. C. Beach, secy. and treas., Ed. M. Brown, mgr. and supt. San Juan Coal, gold, silver. Shaft, 300 tons, refractory, steam, mill.	
"	"	Trickey & Cooper, May B. Silver, gold. Shaft, 20 tons, refractory, hand. J. W. Cooper, mgr. and supt.	
Molokai	Saguache	Alamosa Mining & Milling Co., Alamosa, Colo. Wm. M. Wyckoff, pres., Z. F. Brown, secy., Jno. D. McNee, mgr. and supt. Cap. stk. \$100,000. The North, gold, copper. Shaft, tunnel, free, water, steam, for stamps, developing.	
"	"	Nash & Cartney, Gold Butte, gold. Shaft, tunnel, 300 tons, free, hand, attrite, stamp mill. B. Cartney, supt.	
Monarch	Charles	Colorado Smelting Co., Pueblo, Colo. Ayton Fillets, pres., H. C. Cooper, secy., W. S. Guinee, treas. Cap. stk. \$300,000. Madonna, silver, lead. Tunnel, 12,500 tons, refractory. A. S. Daw, supt.	
"	"	Eclipse Silver Mining Co., St. Louis, Mo., 421 Olive st. Ezra H. Under, pres., W. K. Spurney, secy., F. C. Simmons, treas., Charles H. Abbott, mgr. and supt. Cap. stk. \$100,000. Eclipse, silver, lead. Tunnel, 300 tons, refractory, hand.	
Montezuma	Summit	The Hanks Dora Consolidated Silver Mining Co., Chicago, Ill., 1200 Chamber of Commerce Bldg. Hon. H. W. Faber, pres., Hon. W. G. Smith, v. pres., Sheridan Scammon, secy., Cap. stk. \$750,000. Hanks Dora, Welch's Head and others, silver, lead, copper. Tunnel, refractory. Ed. Fayette Seaman, supt.	
Mt. Snellies	Ouray	Porter & Cooper, Cap. \$150,000. Mikado, Clara Belle, gold, silver. Tunnels, 25 tons, free, refractory, hand.	
Natura	Montrose	Goulding Bros., Goulding, gold. Placer, hydrante.	
Nederland	Boulder	Collins & Garfield, Cap. \$2000. Bolivia, gold, silver. Tunnel, refractory, hand, developing.	
"	"	De Laude & Collins, Cap. \$5000. Magnus, silver. Shaft, 5 tons, refractory, horse.	
"	"	Rowley Moore, Cap. \$1000. Next Best, gold, silver. Shaft, 1000 tons, refractory, hand.	
Needleton	La Plata	Little Jim Gold and Silver Mining & Milling Co., Escondido, Kan., Col. B. Pinkney, pres., Col. D. M. Ketcher, secy., J. S. Schroeder, treas., Cap. stk. \$1,000,000. Little Jim, F. A. W. and others, gold, silver. Tunnel, shaft, free, gas, N. Lyvengood, supt.	
"	"	James N. Lyvengood, Homestead, gold, silver, copper. Tunnel, free, developing.	
Nevada	Gilpin	Bennetts & Co., Burroughs, gold, silver. Tunnel, 300 tons, free, steam. W. T. Bennetts, supt.	
"	P. O. Bald Mountain	O. H. Thurber, Gardner, Sidney B. Hawley, gold. Shaft, refractory, free, steam. Sidney B. Hawley, mgr. and supt.	
Nuggets Town	San Juan	J. S. Robinson, Howardsville, Colo. Tinnia, Leona, silver, lead. Tunnel, 30 tons, free.	
"	P. O. Howardsville		
Nolan Park	Eagle	Glenwood Mining Co., Glenwood Springs, Colo. G. B. Garrison, pres., C. W. Barrow, secy., G. H. Fesler, treas., Ed. Krompat, mgr. Cap. stk. \$100,000. Gold. Shaft, tunnel, free, gas, developing.	
"	P. O. Culford Ry.	B. S. Barthol, supt.	

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
North Star	Gunnison	Crimbler & Co., Buena Vista, Colo.	David H. and others, silver, lead. Shaft: free, steam (developing).	
"	"	May-Mazepa Consolidated Mining & Milling Co., Denver, Colo., Mining Exchange Bldg.	Charles E. Taylor, pres., and mgr.; W. R. Rathvon, secy. and treas., Cap. stock, \$1,000,000. May-Mazepa, silver, lead. Shaft, 4,000 tons, refractory, free, steam. John S. Olin, supt.	
Ohio Creek,	Gunnison	Columbus Mining Co., Pittsburg, Pa., 541 Grant st.	Jas. J. Flannery, pres.; T. J. Fitzpatrick, secy.; J. L. McCormick, treas., J. M. Gardner jr., mgr. and supt. Cap. stk. \$50,000. Venango, gold, silver, Tunnel: refractory.	
Ohio	Huerfano	Spanish Peaks Coffer Mining & Milling Co., New York, N. Y., Room 9, 49 Exchange pl.	W. M. McCarthy, pres.; F. W. Kluge, secy. and treas.; B. F. Wayne, mgr. and supt. Cap. stk. \$2,000,000. Gray Copper, silver, copper. Open, free (developing).	
Ophir	San Miguel	M. I. Albire, Mocking Bird, gold. Tunnel: free, 5 stamps.		
Ry. 628.	"	Caribbean Mining Co., Holyoke, Mass.	Moses Newton, pres.; J. A. McKinnon, secy. John C. Newton, treas., Charles S. Newton, mgr. and supt. Cap. stk. \$100,000. Caribbean, gold, silver, lead. Tunnel, 2,000 tons.	
"	"	A. J. Clark & W. S. Green.	Cap. \$100,000. Suffolk and Globe, gold. Tunnels, 2,000 tons; free, water, 5 stamps. A. J. Clark, supt.	
"	"	Deadwood Gold, Silver & Copper Mining Co., Mt. Vernon, Ohio.	J. B. Graham, treas.; Thos. Clingan, mgr., Deadwood, gold, silver, copper. Tunnel, shaft, refractory (developing). Thos. Clingan, supt.	
"	"	Jarrett & White.	American, Frenchman, silver, lead. Tunnel: refractory, hand.	
"	"	Montezuma Mining Co.	Moses Newton, pres., Chas. S. Newton, mgr. and supt. Cap. stk. \$50,000. Silver, 100 tons.	
"	"	Ophir Neville Mining Co.	V. O. Taylor, pres.; M. W. Turner, secy. and treas., Thomas Clingan, mgr. and supt. Cap. stk. \$2,500,000. Tidal Wave, silver. Tunnel, shaft, refractory.	
"	"	Horatio Page.	Cap. \$1,500. Little Dorset, Black House, silver. Tunnel, hand. J. B. Ward, supt.	
"	"	San Miguel Gold & Silver Mining Co., New York, N. Y.	Oseola, Golden Crown, gold, silver. Tunnel, 100 tons, free, hand; 5 stamps.	
"	"	Silver Belle Mining Co., St. Louis, Mo., 100 N. Main st.	E. S. Brooks, pres., J. T. Watson jr., secy. and treas., Gold, silver. E. E. Bassett, supt.	
"	"	M. P. Yale.	Cap. \$50,000. Star Light, silver, lead. Tunnel, 1,000 tons, refractory, hand. A. J. Clark, supt.	
Ouray	Ouray	American Gold Mining Co., St. Louis, Mo., 21 N. Third st.	James Hopkins, pres., Frank Carter, secy. and treas., L. A. Duhamel, mgr. Cap. stk. \$300,000. American, Nettie, gold, silver, copper. Tunnel, shaft, 1,500 tons, refractory, electricity, water. Walter H. Bunce, supt.	
Ry. 215.	"	Barstow Mining & Milling Co., Titusville, Pa.	M. W. Quick, pres. and mgr., John J. Carter, secy. and treas., Cap. stk. \$1,000,000. Commodore, gold, silver. Tunnel, refractory, free, hand. Sophus Holsinger, supt.	
"	"	Gregory & Seaberg (deceased).	Silver Link, silver, gold, copper. Tunnel, refractory, steam. F. O. Seaberg, supt.	
"	"	The Midnight Mining Co., San W. Gregory, pres. and treas., Geo. H. Keam, secy., P. J. Hohengraue, mgr. and supt. Cap. stk. \$30,000. Midnight, silver. Shaft, steam (developing).		
"	"	Milwaukee Mining Co., Milwaukee, Wis., 629 Marshall st.	John A. Hinsey, pres., O. D. Apple, secy.; John Johnston, treas., William A. Hinsey, mgr. and supt. Cap. stk. \$1,500,000. Milwaukee, gold. Tunnel, 15,000 tons, free, water, 10 stamps.	
"	"	Old Dominion Mining Co., Denver, Colo.	Ernest C. Crammer Black, Humboldt, Sailor's Fortune, gold, silver. Shaft, refractory, steam. John McMahon, supt.	
"	"	Simon Oliver and Wm. Carey.	Monument, Connecting Link, gold, silver, lead. Tunnel, 25 tons, free.	
"	"	Pony Express Mining Co., Colorado Springs, Colo., 14 N. Peoplar st.	J. T. Burkholder, pres.; L. H. Skinner, secy. and treas.; F. W. Franklin, mgr. and supt. Cap. stk. \$1,000,000. Pony Express, silver. Tunnel, 1,000 tons, refractory.	
"	"	Rochester Consolidated Mining & Milling Co., Rochester, New York.	W. W. Sprague, pres.; W. L. Pettin, secy. and treas.; Ira E. Archer, mgr. Cap. stk. \$1,000,000. C. S. Depository and Tokosa, gold, silver, copper and lead. Tunnels, 6,000 tons, free, water, 10 stamps. George Robertson, supt.	
"	"	Saratoga Mining Co., St. Louis, Mo., 117 Olive st.	E. C. Simmons, pres., W. K. Spangley, secy., G. L. Allen, treas. L. R. Fry, mgr. Cap. stk. \$1,000,000. Saratoga, silver. Tunnel, refractory, mill. L. R. Fry, supt.	
"	"	Slide Mining Co.	C. M. Armstrong, pres., George H. Keam, secy. Cap. stk. \$500,000. Slide, gold, silver. Tunnel, 2,500 tons, refractory. Charles Asperger, supt.	
Park	Park	The Orphan Boy Hill Consolidated Mining Co., Alma, Colo.	James Moynihan, pres. and mgr., Fremont Woodruff, secy., John M. Walker, treas., Cap. stk. \$100,000. Orphan Boy, Honey Comb and others, gold, silver, iron. Tunnel, refractory, compressed air (developing). James Moynihan, supt.	
"	"	Thompson & Thompson, Alma, Colo.	Sunny South, gold, silver. Tunnel, 10 tons; refractory. John Thompson, supt.	
Parrot	La Plata	J. S. O. Hopkins and others.	Morovorally, gold, silver. Tunnel, shaft, refractory, hand (developing).	
Ry. Hesperus 628 (5 m.)	"			
Pitkin	Gunnison	Avoca Mining Co., Aspen, Colo.	J. E. Freeman, pres. and mgr.; F. A. Shepard, secy., H. W. Stormer, treas., Cap. stk. \$1,000,000. Avoca, silver. Shaft (developing).	
Ry. 776.	"	Blaine Mining & Milling Co., Pueblo, Colo.	G. T. Nash, pres., J. D. W. Osgood, secy., Charles Ruter, treas., G. W. Greeley, mgr. and supt. Cap. stk. \$300,000. Jim Blaine, gold, silver, lead. Shaft, tunnel, free, hand.	
"	"	Chicago Park Mining Co., Gunnison, Colo.	S. L. Moyer, pres., J. S. Lawrence, secy., John R. Steele, treas., Frank W. Terry, mgr. Cap. stk. \$1,000,000. Silver, lead. Shaft (developing).	

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Pitkin, (Continued.)		Gunnison	Cleopatra Silver Mining Co., Chicago, Ill., 4 Sherman st., Frank Drake, pres. and gen. mgr., Frank W. Perry, secy., John Cudaby, treas., Cap. stk. \$2,500,000. Cleopatra, Abundant and others, gold, silver, shaft, free, steam. Charles Oliver, supt.	
"	"	"	G. W. Griffin & Co., Jesspers, Nest Egg, silver, lead, Tunnel, shaft, 30 tons, free, hand, E. T. Davis, supt.	
"	"	"	The Hindoo Mining Co., Pueblo, Colo., Central Block, Chas. B. Nicholson, pres., Frank C. Kaye, secy., and treas., John Lavezey, mgr., Cap. stk. \$1,000,000. Little Fred, Hindoo No. 3, and Little Hindoo No. 2, gold and silver. Shaft and tunnel, refractory, hand-developing. A. F. Fiesberg, supt.	
"	"	"	Little Tyecon Mining Co., Burlington, Iowa, 516 Jefferson st., H. W. Chittenden, pres., Thomas Wilkin, secy. and treas., G. W. Gentry, mgr. and supt., Cap. stk. \$100,000. Little Tyecon, gold, silver, lead, shaft, tunnel, 24 tons, horse.	
"	"	"	Monk Gold & Silver Mining Co., Pittsburg, Pa., W. W. Murray, pres., J. E. Grimes, secy., O. E. De Costa, treas., J. M. Gardner, mgr. and supt., Cap. stk. \$500,000. Gold, silver. Tunnel, placer, refractory, water, bestamps.	
"	"	"	The Quartz Creek Mining & Milling Co., Chicago, Ill., 175 Dearborn st., Henry Knight, pres., Frank W. Perry, secy., Albert S. Wright, treas., Cap. stk. \$1,000,000. No Name, gold, silver. Shaft, slope, 10,000 tons, free, steam, electricity, mill. Charles E. Wright, supt.	
"	"	"	Sacramento Consolidated Mining Co., Denver, Colo., 1541 First & Channell Bldg., George C. Mandy, pres., Wm. R. Moore, secy. and treas., Cap. stk. \$1,000,000. Sacramento, corundum and others, gold, silver, Tunnel, shaft, 300 tons, refractory, hand.	
"	"	"	The Saturn Mining Co., Aspen, Colo., J. F. Freeman, pres. and mgr., F. A. Shepard, secy., H. W. Stornes, treas., Cap. stk. \$1,000,000. Saturn, silver. Shaft-developing.	
"	"	"	Silver Islet Mining & Milling Co., Chicago, Ill., 4 Sherman st., Frank Drake, pres., Miss H. A. Dean, secy., John Cudaby, treas., Cap. stk. \$250,000. Silver Islet, Silver Nugget and others, gold, silver, shaft, slope, 1,000 tons, free, steam, bestamps. James A. Preston, supt.	
"	"	"	Solitaire Mining Co., Aspen, Colo., Aspen Block, Room 12, J. F. Freeman, pres. and mgr., F. A. Shepard, secy., Wm. R. Moore, treas., Cap. stk. \$1,000,000. Maggie F., Gump, silver. Shaft and tunnel, developing. A. G. Ward, supt.	
"	"	"	Statesman Mining Co., Aspen, Colo., Don C. Pollard, pres., F. A. Shepard, secy., Cap. stk. \$1,000,000. Statesman, silver. Shaft-developing.	
Placerville, Ry. 628.		San Miguel	H. H. Hart, Cap. \$200,000. Sable, Nonpareil, gold. Shaft, drift, water, attractive.	
"	"	"	Mt. Wilson Gold & Silver Mining Co., Southport, Conn., F. C. Sherwood, pres., O. L. Sherwood, secy. and treas., Cap. stk. \$500,000. Silver Pick, gold, silver. Tunnel, 30 tons, refractory, hand. J. F. Waukenmaker, mgr. and supt.	
Berthoud, Ry. Piedmont 215.		Ouray	J. W. Grewell & H. G. Bart, Anna, Blum, silver. Tunnel, hand-developing.	
"	"	"	James Overman, Cap. \$45,000. Cascade, silver. Shaft, 50 tons, refractory, steam.	
Poudre City, (F. O. Home Collins 226.		Larimer	Zimmerman Bros., Cap. \$200,000. North Star, gold. Shaft, tunnel, free, water.	
Red Cliff, Ry. 215.		Trigle	Wm. Doodsworth and others. Warriors' Mark, gold, silver. Refractory, developing.	
"	"	"	Wm. A. Gay, Cap. \$25,000. Henrietta, gold, silver, lead. Tunnel and slope, free, steam.	
"	"	"	Hans Harders, First National, st. gold and silver. Refractory, developing.	
"	"	"	Charles W. Linsley, Little May, silver, lead. Shaft, refractory, horse, hand-developing.	
Rico, Ry. 628.		Dolores	A. B. G. Mining Co., Burnsville, Colo., J. W. Burns, mgr., Alturas, Alta, A. B. G. and others, gold, silver and lead, Tunnels, 30 tons, refractory, steam. J. H. Waaga, mgr. supt.	
"	"	"	Consolidated Rio Return Mining Co., Denver, Colo., P. O. Box 1436, Julius Thompson, pres., W. F. Ostrander, secy., G. B. Garrison, treas., Douglas I. A. Browne, mgr., Cap. stk. \$2,500,000. Gold, silver, lead, Tunnel, shaft, refractory, steam, developing.	
"	"	"	The Grand Duke Mining Co., St. Louis, Mo., 618 N. Third st., Louis A. Hollmans, pres., Gustavus S. Lehm, secy., J. S. M. White, treas., Joseph Menchillo, mgr. and supt., Cap. stk. \$800,000. Grand Duke, Fort St. Luke and others, silver, gold, lead, Shaft, tunnel, 1,500 tons, refractory, electricity.	
"	"	"	Haberman & Rhoder, Logan, Sherman and others, 12,000 tons, free, steam.	
"	"	"	Iron Dollar Silver Mining Co., Pueblo, Colo., C. F. Meek, pres., J. F. Arthur, secy., J. J. Burns, treas., J. T. Hubbard, mgr. and supt., Cap. stk. \$100,000. Iron Dollar, silver. Shaft, steam.	
"	"	"	Mind of Australia Mining Co., Cap. \$100,000. Mind of Australia, silver, gold, lead, iron. Shaft, refractory, steam, developing. D. M. Evans, mgr. and supt.	
"	"	"	W. W. Parshall, Syndicate, gold, silver, lead. Tunnel, value output, \$85,000.	
"	"	"	W. S. Pondexter and others, Black Demon, Sanflower, Badger, silver, gold, lead. Tunnel, shaft, refractory, steam, Albert Newton, supt.	
"	"	"	Rico Aspen Consolidated Mining Co., David H. Mollat, pres., Eben Smith, pres., L. D. Peterson, secy., A. B. Roeder, treas., Douglas I. A. Browne, mgr. and supt., Cap. stk. \$5,000,000. Aspen, Vista, Montezuma and others, gold, silver and lead. Shafts and tunnels, 50,000 tons, steam.	
"	"	"	The Southern Tunnel Co., W. W. Parshall, pres. and treas., A. T. Hathaway, secy., John C. Clark, mgr. and supt., Cap. stk. \$200,000. No. 3, Hobbs and others, silver, lead. Tunnel, 1,500 tons, refractory, free.	
"	"	"	Mrs. M. A. Sprinkle, Last Chance, silver. Shaft, tunnel, developing.	
"	"	"	Swansea Gold & Silver Mining Co., Denver, Colo., 317 Mining Exchange Bldg., Charles Newman, pres. and mgr., Wm. L. Stephens, secy. and treas., Cap. stk. \$600,000. Swansea, No. 1, Chas. St. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.	
"	"	"	Uncle Ned Mining Co., Peter McConor, pres., G. B. Garrison, secy. and treas., Henry Klingenberg, supt., Cap. stk. \$1,000,000. Peter McConor, silver and lead, Shaft and tunnel, developing. F. B. Thomas, supt.	

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Rico,		Dolores	Union Carbonate Mining Co.	Union Carbonate, silver, lead. Shaft, slope, 5,000 tons; steam. A. T. Hathaway, supt.
"	(Continued.)	"	Wakeman & Hill.	Princeton, Ethlena, silver, lead, gold. Tunnel, 1,500 tons; refractory; hand.
Rawley		Ouray	Bowls & Phillips.	Cap. \$5,000. Gold, silver. Tunnel; refractory; hand (developing). J. B. Frogley, supt.
Ry, 215.		"	W. S. Tevis.	Madona, Little Joe, gold, silver. Shaft; free (developing).
Robinson		Summit	Ajax Mining Co.	Frank Owens, prest.; J. F. McDonald, secy.; John McConaghy, treas. and mgr. Cap. \$50,000. Ajax, gold, silver, lead. Shaft, incline, 4,000 tons; refractory; steam. C. P. Schumaker, supt.
Ry, 215, 776.		"	Fred. G. Bulkley.	Cap. \$150,000. Bulkley Group, silver, gold. Slope, 2,500 tons; refractory; steam. Jesse F. McDonald, supt.
"		"	Champion Mining Co.	Champion, silver. Shaft, slope, 150 tons; refractory; steam. J. W. Woodford, supt.
"		"	Continental Gold & Silver Mining Co.	Rockford, Ill. J. E. Linn, prest.; C. D. Williams, secy.; H. E. Wheeler, treas. Rafter, silver, 1,321 tons; refractory; steam. J. W. Woodford, supt.
"		"	Half Moon Mining Co.	John McConaghy, prest. and mgr., D. H. Gallagher, secy., W. M. Clark, treas. Half Moon, gold, silver, lead. Shaft, slope (developing).
"		"	New York Mining Co.	New York, gold, silver. Shaft, slope, 5,000 tons; refractory; steam. Jesse F. McDonald, supt.
"		"	Robinson Consolidated Mining Co.	New York, N. Y., 45 Broadway. John Jay White, prest.; F. C. Poncher, secy. and treas. Jesse F. McDonald, mgr. and supt. Cap. stk. \$100,000,000. Robinson, silver, gold. Shaft, tunnel, slope, 5,000 tons; refractory; steam.
"		"	Sunshine Consolidated Gold & Silver Mining Co.	Des Moines, Ia. L. A. Wilkinson, prest.; Will Tonn, secy.; J. M. Shuck, treas. Cap. stk. \$500,000. Sunshine, gold, silver, lead. Shaft, 10 tons; refractory; steam (developing).
"		"	Woodford Bros. & Co., Denver, Colo.	Mining Exchange Bldg. F. C. Peck, prest. — Rylbell, secy., H. C. Frost, treas.; Woodford Bros., mgrs. Cap. stk. \$500,000. Diamond B, silver. Slope, shaft, 30 tons; refractory; steam (developing). Walter C. Smith, supt.
Rockwood		La Plata	John W. Morse, Durango, Colo.	Red Point, silver. Shaft (developing).
Ry, 215.		"	C. V. Brinkenhoff & L. W. Lansing.	Cap. \$10,000. Durango, Alma, Min. gold. Tunnel, shaft; refractory (developing).
Rollinsville		Gilpin	Rehm Gold and Silver Mining & Milling Co.	Cap. stk. \$500,000, indy. cap. \$200,000. Perigo, Gold Dirt and others, gold, silver, lead, copper. Shaft, tunnel, refractory, free, steam, water, 25 stamps.
Ry, Black Hawk 776.		"	Victoria Gold & Silver Mining & Milling Co.	Denver, Colo., 17 Jacobson Block. Frank H. Levering, prest.; C. V. Mead, secy.; W. S. Estey, treas.; P. Peterson, mgr. and supt. Cap. stk. \$200,000. Victoria, gold. Shaft, 4,500 tons; free, steam, 15 stamps.
Romley		Chaffee	Mary Murphy Mining Co.	St. Louis, Mo., 403 Elm st. W. R. Donaldson, prest.; J. W. Wallace, secy. and treas. Cap. stk. \$300,000. Mary Murphy, gold, silver, copper. Tunnel, shaft, 25,000 tons; refractory, compressed air, mill, concentrators. J. H. Seck, mgr. and supt.
Ry, 776.		"	Topoka Mining Co.	Chicago, Ill., 410 Chamber of Commerce. Percy C. Hamilton, prest. and treas.; William Phelps, secy.; Henry P. Lowe, mgr. and supt. Cap. stk. \$1,000,000. Topoka Extension, gold. Shaft, 15,000 tons; free, refractory; steam.
Russell Gulch		Gilpin	J. S. Sanderson.	Fulton, gold, silver. Shaft, 480 tons; horse.
Ry, 776.		Saguache	Pat Murphy Gold Mining Co.	St. Louis, Mo., 308 S. Main st. Cap. stk. \$300,000. Iron Chest, gold, silver. Shaft, tunnel, 15,000 tons; refractory, free; steam, water, mill, concentrator, Joseph Bollschnieder, mgr. and supt.
Saguache		Saguache	Farmer Mining & Milling Co.	George Warren, prest.; Henry Brown, secy.; John McBride, treas. Cap. stk. \$10,000. Lady Murphy, Mollie, Pioneer, gold, silver, lead. Tunnel, 6,000 tons; free; steam, compressed air, 20 stamps. Henry Brown, supt.
St. Elmo		Chaffee	Byron E. Shear & S. L. Johnson.	Denver, Colo., 728 Sixteenth st. S. L. Johnson, mgr. Tressa C., gold, silver and copper. Shaft and tunnel, 1,000 tons; free; steam. N. S. Billock, supt.
Ry, 776.		"	Valeourt & Blanchard.	Cap. \$25,000. Gold Field, gold, silver. Shaft, 3,000 tons; refractory, free, horse. A. Blanchard, supt.
Sahla,		Chaffee	Victoria Mining & Milling Co.	Denver, Colo., Ernest & Cramer Block, Room 804. Wm. Brooks, prest.; O. T. Avery, secy.; E. W. Waybright, treas.; R. K. Thayer, mgr. Cap. stk. \$500,000. Victoria, gold and silver. Shafts, 50 tons; refractory; steam.
Ry, Gold Hill 776.		"	Blake & Little, Silver Cliff, Colo.	Cap. \$3,000. Niagara, gold, silver, lead. Tunnel, 100 tons; refractory, hand. D. C. Blake, supt.
Sharpsdale,		Huerfano	McIntire Bros. & Mack.	Dendwood, gold, silver, lead. Tunnel, free (developing).
Ry, Pueblo 75 miles by wagon.		"	Black Wonder Gold & Silver Mining Co.	Boston, Mass., 244 Washington st. Hon. Mr. Waterman, prest.; Mr. Stark, secy.; J. Henry Allen, treas.; E. C. Davis, mgr. Cap. stk. \$1,000,000. Black Wonder, gold, silver. Shaft, tunnel, drift, refractory (developing). Abel A. Allen, supt.
Sherman		Huerfano	Good Hope Mining Co.	Washington, D. C., cor. Ninth and F sts. C. C. Clements, prest.; Paul R. Van Meter, secy.; Frank S. Williams, treas. Cap. stk. \$500,000. Good Hope, silver, lead. Shaft, level, free, horse, steam (developing).
Ry, Cripple 215.		Chuster	T. W. Graesser.	Augustus, silver, lead. Shaft (developing).
"		"	E. J. Haskell.	Racine Bay, Hudson, Jay Gould, gold, silver, lead. Open pit, shaft, refractory, steam, 40 stamps.

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Silver Cliff, (Continued.)			A. H. Henning, Ang. Koppe & E. Burkhardt. Troy, silver. Shaft: refractory; hand.	
"	"	"	Samuel C. Hunsaker. Black, gold, silver. Tunnel, free, hand (developing).	
"	"	"	International Mining Co., Pueblo, Colo., Rooms 122 and 123 Central Block. O. A. Derby, pres., R. A. Crossman, secy., John H. Voorhies, treas., J. W. Williams, mgt. Cap. stk. \$300,000. International, gold, silver. Shaft: free, steam. O. A. Derby, supt.	
"	"	"	S. F. Jordan. Powhattan, gold, silver, lead. Refractory; hand.	
"	"	"	J. R. Thomas and others. Lawella, silver, copper. Shaft, 3 stamps.	
Silver Mine, P. O. and Ry. La Veta 215 (8 miles).	Huerfano		F. E. Collier and others. La Veta, Colo., Cap. \$30,000. Trenton, Yankee Girl and others, silver, gold. Tunnel, shaft, 20 tons, free. F. E. Collier, supt.	
"	"	"	A. B. Morse & W. H. Clifford. Fifth M., silver. Shaft (developing). A. B. Morse, supt.	
"	"	"	Martin, Reed & Co. Cap. stk. \$25,000. Wondertail, gold, silver. Shaft, tunnel, refractory, horse, hand. Frank Martin, supt.	
"	"	"	Rocky Mountain Mining & Development Co., Pueblo, Colo., 106 West Third St. H. W. Young, pres., and mgt., Geo. W. Gephart, secy., A. V. Bradford, treas. Cap. stk. \$100,000. New York, Chicago, silver. Shaft (developing).	
Silver Plume, Clear Creek Ry. 776.			Baltimore Mining & Milling Co., Denver, Colo., 101 Eighteenth St. John Fithus, pres., and mgt., William H. Emanuel, secy. and treas. Cap. stk. \$300,000. Baltimore, silver, lead. Tunnel, shaft, steam. George Meyers, supt.	
"	"	"	R. Orchard, Ogd. George town, Colo. Cap. \$100,000. Mendota, Dillon, silver, lead. Shaft, tunnel, 1,500 tons, free. F. G. Chapman, supt.	
"	"	"	Pay Rock Silver Mines, Ltd., London, England. Thomas Hicks, pres., J. E. Palmer, treas. Cap. stk. \$100,000. Pay Rock, Silver Plume, silver. Tunnel, shaft, 1,500 tons, refractory, compressed air, concentrator. John M. S. Egan, mgt. and supt.	
"	"	"	Silver Plume Consolidated Mining Co., Lincoln, Neb., 1211 O St. Robert N. Wharton, pres., John Gillespie, secy., T. C. Kern, treas. Cap. stk. \$300,000. Silver Plume, silver and lead. Tunnel (developing).	
Silverton, Ry. 215.	San Juan		Animas River Mining Co., Milwaukee, Wis., 4 Metropolitan Block. Cap. stk. \$300,000. Animas and Mamie, gold, silver, lead and copper. Tunnel, free, water (developing).	
"	"	"	Randora Mining & Milling Co., Colorado Springs, Colo., 100 E. Kiowa St. F. J. Martin, pres., W. M. Harriott, secy., C. L. Noble, treas., H. H. Daniels, mgt. and supt. Cap. stk. \$250,000. Randora, silver and gold. Tunnel, 200 tons, refractory, steam.	
"	"	"	A. R. Biggs, Brooklyn, N. Y., 95 Linwood St. Biggs, gold, silver and lead. Grift, shaft, refractory concentrator. J. L. Biggs, supt.	
"	"	"	C. & L. I. Gold & Silver Mining Co., Denver, Colo., 1754 Curtis St. Edward F. Lamb, pres., and mgt., R. G. Hilfen, secy., F. O. Taylor, treas. Cap. stk. \$300,000. Gold, silver and lead. Shaft, tunnel, 2,000 tons, free and refractory, steam. E. F. Lamb, supt.	
"	"	"	Keenell Mount Gold & Silver Mining Co., James I. Curtis, pres., Samuel E. Laird, secy. and treas., Thomas H. Kane, mgt. Cap. stk. \$300,000. Etnesville, gold and silver. Tunnel, 1,000 tons, refractory, water, steam, 15 stamps. W. J. Kane, supt.	
"	"	"	San Juan Mining & Milling Co., New York, N. Y., 65 Fulton St. W. Shepard Lsby, pres., and treas., Wm. O. Chapman, secy., J. E. Biggs, mgt. and supt. Cap. stk. \$300,000. New York, gold, silver and lead. Drift, shaft, 1,000 tons, free, refractory, water, concentrator.	
"	"	"	Twinn Metals Mining & Milling Co., Pueblo, Colo., 22 S. Union Ave. J. L. Wood, pres., Olin Benick, secy., H. M. Ward, treas. and mgt. Cap. stk. \$250,000. Twinn, gold and silver. Tunnel, free and refractory, steam (developing).	
South Creede, Rio Grande P. O. Anethist Ry. 215.			Marguerite Mining Co., M. A. Duvstad, pres., Jas. McNamara, secy. Thomas Hartings, mgt. Cap. stk. \$100,000. Marguerite, silver. Shaft, 40 tons, hand (developing).	
Stanner, Ry. Alamosa 215.	Concepcion		Eureyde Mining Co., Denver, Colo., cor. Seventeenth and Champa Sts. Ernest C. Farmer, Block. Malcolm Anderson, pres. and secy., Col. H. C. Anderson, treas. Cap. stk. \$100,000. Eureyde, Louisa, gold and silver. Shaft, tunnel, 1,000 tons, refractory, steam. J. O. Dunmuck, supt.	
Sugar Loaf Ry. 776.	Boulder		Baldwin & Co.,s. Boomerang, Euclid, Jasper, gold and silver. Shaft, tunnel, 50 tons, free, refractory, hand. S. S. Baldwin, supt.	
"	"	"	Beach & Pate. Silver Tangle, silver and copper. Shaft, slope, refractory, horse (developing). W. L. Beach, supt.	
"	"	"	Geo. H. Chick, Pittsburg, Kan. Cap. \$100,000. Tambourine, gold and silver. Tunnel, 500 tons, refractory, hand. Geo. H. Thompson, supt.	
"	"	"	Norman Mills & W. E. Ayers. Gold Fish, North Wind, gold and silver (developing). Norman W. Mills, supt.	
"	"	"	Phillips & Wood, Boulder, Colo., Phillips Summit, New Era, gold and silver. Tunnel, shaft, refractory (developing). G. P. Wood, supt.	
Sunset Ry. 776.	Boulder		Free Orange Mining & Milling Co., Denver, Colo., 36 Myerson Temple. A. J. Severance, pres., treas. and mgt., R. A. Ambler, secy. Cap. stk. \$250,000. Free Orange, gold and silver. Tunnel, 2,000 tons, free, refractory, hand, 40 stamps. J. E. Severance, supt.	
Sunshine Ry. Boulder 776.	Boulder		Exodus Mining Co., East Liverpool, Ohio, P. O. Box 628. E. H. Coxall, pres., Geo. B. Hartley, secy., Chas. E. Maetum, treas., Jas. W. Kerr, mgt. Exodus, gold and silver. Shaft, tunnel (developing).	
"	"	"	Minnie Belle Mining Co., Denver, Colo., 112 Market St. C. C. Bondell, pres., F. W. Henningson, secy. and treas., John Fuller, mgt. and supt. Minnie Belle, silver and gold. Shaft, 100 tons, refractory, horse.	
"	"	"	J. H. Pate. Cap. \$100,000. Lead, Excelsior, gold. Shaft, tunnel, refractory, horse, hand (developing).	
"	"	"	White Crow Gold Mining Co., Colorado Springs, Colo., F. L. Martin, pres., W. J. H. H. secy., W. R. Burges, treas., W. J. Williams, mgt. and supt. Cap. stk. \$250,000. White Crow, gold. Shaft, 40 tons, refractory, steam, concentrator.	

GOLD AND SILVER—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Sweet Home	Clear Creek		F. E. Platt & Ed. Bowden, Dumont, Colo.	Cap. \$10,000. Lett Hand, Eagle Bird, gold. Tunnel, 100 tons; free; water; 15 stamps.
Teahvale	Ry. 628.	San Miguel	Etina Mining & Milling Co., J. C. Weller, pres. and treas.; L. Jones, secy.; E. N. Weller, mgr.	Cap. stk. \$100,000. Etina Group, gold. Shaft; free; water; Huntington mill. E. B. Weller, supt.
"	"	"	Bates & McEwen.	Hidden Treasure, gold, silver. Tunnel; free; hand developing.
"	"	"	Belmont Consolidated Mining Co., Shanghai, China. A. J. Howe, pres.; Drysdale, Ringer & Co., secy. and treas.; J. A. R. Waters, mgr.	Cap. stk. \$850,000. Belmont, Tom Boy, gold. Tunnel, 12,000 tons; free; water, electricity, mill. J. S. Higgs, supt.
"	"	"	Black Bear Mining Co., Andrew Werroner, pres. and mgr., Zach Anderson, secy.; Fred Krongvist, treas.	Cap. stk. \$600,000. Black Bear, White Bear, gold, silver, lead. Tunnel, hand developing; Andrew Werroner, supt.
"	"	"	Bohemia Mining Co.	Bohemia, gold, silver. Shaft, tunnel, 200 tons; refractory; free.
"	"	"	Bradley Mining Co., B. F. Lohmes, pres.; J. L. Osborne, secy. and treas.; T. J. Wilkinson, mgr.	Bradley, gold and silver. Tunnel, 1,000 tons, refractory; water; mill. J. B. Miller, supt.
"	"	"	La Junta Mining Co., E. E. Runkle, pres. and mgr.; E. B. Weller, secy. and treas.	La Junta, gold. Tunnel, refractory; free; water; mill. E. E. Runkle, supt.
"	"	"	Lohmes, Miller & Osborn.	Bradley, gold, silver, lead. Tunnel, 400 tons, refractory; hand. B. F. Lohmes, supt.
"	"	"	John H. Mitchell.	Cap. \$800,000. Silver Glade, silver. Tunnel, shaft; free and refractory; hand.
"	"	"	Nellie Mining Co., T. A. Davis, pres. and mgr.; O. N. Davis, secy.; E. L. Davis, treas.	Cap. stk. \$500,000. Nellie, Elva, gold, silver. Tunnel, free. Gus Anderson, supt.
"	"	"	San Miguel Consolidated Gold Mining Co., Benjamin F. Butler, pres.; Elston Hoyt, secy.; Wm. F. Reed, treas.; L. L. Nunn, mgr.	Cap. stk. \$10,000,000. Gold. Shafts and tunnels, free; electricity, 160 stamps, E. H. Peaty, supt.
"	"	"	Sheridan Consolidated Mining & Milling Co. Ltd., Shanghai, China. G. James Morrison, pres.; Drysdale, Ringer & Co., secy. and treas.; J. H. Ernest Waters, gen. mgr.	Cap. stk. \$2,000,000. Sheridan, Mendota, gold, silver. Shaft, tunnel, 25,000 tons, free, refractory, steam, electricity, water; 40 stamps; concentrator. Samuel Treas, supt.
"	"	"	The Smuggler-Union Mining Co., Denver, Colo., 804 Boston Bldg. J. A. Porter, pres.; A. H. Fowler, secy. and treas.; N. T. Mansfield, mgr.	Cap. stk. \$5,000,000. Smuggler-Union, gold and silver. Shaft, tunnel, 25,000 tons; refractory; steam, 10 stamps. Richard Treas, supt.
Thomasville	Ry. 26.	Pitkin	Frying Pan Mining & Milling Co., Denver, Colo. Geo. J. Boal, pres.	Cap. stk. \$300,000. Bessie, silver, lead. Shaft, refractory; steam developing. W. E. Newberry, supt.
"	"	"	McKinley Mining Co., Colorado Springs, Colo. Bank Bldg. Frank O. Wood, pres. and mgr.; Frank White, secy. and treas.	Cap. stk. \$600,000. McKinley and Tariff Lodes, silver. Shaft developing.
Tim Cup	Gunnison		Broken Hill Mining & Milling Co., Denver, Colo., 728 Sixteenth st. L. L. Johnson, pres.; James W. Forrest, secy. and treas.	Cap. stk. \$1,000,000. Broken Hill, gold, silver. Tunnel developing.
"	Ry. St. Elmo 776 9 mi. S.	"	Forest Hill Mining & Milling Co., W. W. Wall, pres.; Laurence Winsherman, secy.; C. A. Fredericks, treas.; E. A. Ackerson, mgr. and supt.	Cap. stk. \$1,000,000. St. Crispin, gold. Shaft, 5,000 tons; free, water, 60 stamps.
"	"	"	Gee Zee Mining Co., St. Louis, Mo., 506 Olive st. Solon N. Sapp, pres.; W. F. Hawley, secy.; L. E. Roberts, treas.	Cap. stk. \$2,000,000. Gee Zee, silver, lead. Shaft, refractory, horse. James L. Perkins, supt.
"	"	"	Gold Cup Mining Co., Denver, Colo., Equitable Bldg. A. E. Reynolds, pres.; C. F. McKenney, secy.; A. Sneyaker, mgr.	Cap. stk. \$5,000,000. Gold Cup, gold, silver. Shaft, refractory; steam and compressed air.
"	"	"	John Hines.	Maid of Erin, gold, silver. Shaft, free; hand developing.
"	"	"	Lewis & McCormick.	Wald-McCormick Group, gold and manganese developing; free.
"	"	"	Thomas H. Mastin & E. A. Hill.	Queen of the West, silver, lead, iron. Shaft, tunnel, refractory, hand. E. A. Hill, supt.
"	"	"	Jerome Noakes.	Big Chief, silver, lead. Tunnel, shaft, 300 tons, free, hand.
"	"	"	C. F. Wahl.	Wahl, gold. Tunnel, 50 tons, free, hand.
Tomichi	Gunnison		Thomas W. Berry.	Cap. \$300. Treasure Vault, Copperite, gold, silver, lead. Shaft, 5 tons, refractory, hand developing.
"	Ry. Sargents 215.	"	Magna Charta Silver Mining & Tunnel Co., Cleveland, Ohio, 50 Euclid av. E. J. Farmer, pres. and mgr.; James Eng. Farmer, secy.; John N. Stockwell, treas.	Cap. stk. \$2,500,000. Magna Charta, gold, silver, lead and copper. Tunnel, 30,000 tons, steam, water and electricity, concentrating mill. O. H. Atkins, supt.
"	"	"	Ohio & Colorado Mining Co., 201 Superior st. A. Teachmont, pres.; J. Nesbit Wilson, secy. and mgr.; James A. Anderson, treas.	Cap. stk. \$2,500,000. Grey Copper, Little Minnie, Topeka and others, gold, silver, lead. Tunnel, refractory, steam developing.
Trout Lake	San Miguel		San Bernardo Silver Mines, Ltd. Percy W. Thomas, pres.; Alfred E. Wesley, secy.; Francis A. Vouillon, treas.	Cap. stk. \$750,000. San Bernardo, silver, lead. Tunnel, 5,000 tons; refractory, water, electricity, concentrator. J. W. Mason, mgr. and supt.
"	Ry. San Bernardo 215.	"	Wm. M. Tinker.	St. Louis, Mo., 519 Pine st. Clara, silver and lead. Tunnel, 51 tons, refractory, hand.
Trim Lakes	Lake		J. S. Bower.	Cap. \$30,000. Sherman, Cleveland, gold, silver. Tunnel, 100 tons, refractory, hand.
"	Ry. Granite 26, 215, 18 miles.	"	Cornelius Bros.	Lincoln, Blaine, gold, silver, bismuth. Tunnel, refractory, hand developing.
"	"	"	Warren Cutler & S. H. Leister.	Cap. \$8,000. Betsy S., Solid Coin, gold, silver. Tunnel, 10 tons, refractory and free horse. S. H. Leister, supt.

GOLD AND SILVER—(CONTINUED).

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND COUNTY.		
Twain Lakes, (Continued.)	Lake	John W. Dixon & Son, Winemaker, Little Joe, gold, silver. Tunnel, shaft, free, hand. Charles H. Houser, supt. Nine miles to railway.	
"	"	Fall River & Colorado Mining & Milling Co., Fall River, Mass. H. Francis Lawton, pres., C. A. Hughes, secy., Geo. T. Durtie, treas., Ambrose M. Thomas, mgt. and supt. Cap. stk. \$250,000. Hurtle, Goldsmith and others, gold, silver. Shaft, tunnel, open pit, free, water, 10 stamps.	
"	"	G. R. Garland & H. N. Garland, O. K., Portland, silver, lead. Tunnel, refractory developing.	
"	"	Gold Bug Mining & Milling Co., Aspen, Colo. Frank S. Rice, pres., C. A. McNulty, secy. Geo. Rust, treas., Ed. C. Rice, mgt., Cap. stk. \$750,000. Gold Bug, gold. Tunnel, slope, 1,200 tons, refractory and free, hand. Wm. P. Renne, supt.	
"	"	Harlan & Co., Keatsburg, Conestock, Free Conestock, gold. Tunnel, shaft, free, water, developing.	
"	"	Hos, Hemmicherry. Sunset, Little May, Black Venus, silver, gold, lead. Shaft, tunnel, refractory, water.	
"	"	Wm. Her. Cap. \$75,000. Mount Elbert, Ontario, gold. Tunnel, shaft, refractory developing.	
"	"	John McDonald, Mountain Boy, silver. Tunnel, 50 tons, refractory, hand. Twenty miles to railway.	
"	"	Mt. Elbert Mining & Milling Co., Denver, Colo., J. F. Frost & Canner Block. James Leonard, pres., F. C. Gilman, secy., A. H. Weber, treas., C. A. McNulty, mgt., Cap. stk. \$200,000. Gordon, Bengal Tiger, gold. Tunnel, 1,000 tons, free, water, steam, 10 stamps. Joseph Hart, supt.	
"	"	M. R. Mining & Milling Co., Galesburg, Ill. Alton Rhodes, pres., J. H. Calkins, secy. R. F. Davis, treas., Cap. stk. \$100,000. Gold and silver. Five stamps.	
"	"	Silverthorn Tunnel Co., Leadville, Colo. P. O. Budding. Du. L. E. Silverthorn, pres. and treas., N. Robins, secy., L. R. Shaver, mgt. and supt. Cap. stk. \$800,000. Yankee Girl, Emma and others, Tunnel, refractory, free, hand, developing.	
"	"	Stages, Quinlan & McElmoot. Conchology, Ballarat, Great Coast, War Eagle, gold and silver. Shaft, tunnel, slope, free, hand, developing. L. H. Stages, supt.	
Virginia Ry., Ouray 25 1/2 mi.	Ouray	Old Dominion Mining Co., Denver, Colo. J. R. Price, pres., J. E. Larch, mgt. Cap. stk. \$500,000. Home, Gold, Sooty's Fortunes, silver. Shaft, tunnel, 1,000 tons, free, steam. John McMahon, supt.	
Wagon Wheel Gap, Ry. 25 1/2.	Red Gulch	Electric Mining & Milling Co., Denver, Colo., 604 Fremont St. Horton W. Johnson, pres., William D. Nash, secy., Chas. H. Hays, treas., William R. Farrington, mgt. Cap. stk. \$250,000. Electric, gold and silver. Shaft, tunnel, hand, developing. C. R. Waters, supt.	
"	"	Rider Haggard Mining Co., Frank T. Page, pres., Bela T. Page, secy., Joseph P. Hanna, treas., L. W. Malloy, mgt. Cap. stk. \$100,000. Rider Haggard, Zulu, She, He, silver. Tunnel, shaft, slope, refractory, hand, hand, developing.	
Ward District, Ry. Sunset 75 1/2 mi.	Boulder	Fred E. Ames, Boston, Mass. New Market, gold and silver. Shaft, free, steam.	
"	"	Bestes Mining & Milling Co., Boulder, Colo. W. F. Bates, pres. and mgt., O. W. Stone, secy. and treas., Cap. stk. \$50,000. Baxter, gold. Shaft, free, 10 stamps. L. R. Stevens, supt.	
"	"	John T. Deane. Dew Drop, gold, silver and copper. Tunnel, shaft, 900 tons, free, steam.	
"	"	Edward Hartman. Birch, gold and silver. Shaft, tunnel, 100 tons, free, 10 stamps.	
"	"	Hedges & Co., Cap. \$50,000. Columbia, gold and silver. Shaft, 1,000 tons, refractory, steam, 15 stamps. W. W. Hedges, supt.	
"	"	Madison Consolidated Mining & Milling Co., New York, N. Y., J. Nassau, pres., Arthur M. Smith, pres., Charles H. Wright, secy. and treas., L. Kenyon, mgt. and supt., Cap. stk. \$750,000. Madeline, gold, silver and copper. Shaft, 1,000 tons, refractory, steam, 100 stamps.	
"	"	R. Z. Mason. Cap. \$5,000. Park, Powhattan, Grant, Adams, silver. Shaft, 500 tons, free, steam.	
"	"	Puzzler Gold Mining & Milling Co., Bonanza, Colo. R. A. Deane, pres. and mgt., Charles H. Wescor, secy. and treas., Cap. stk. \$50,000. Puzzler, gold. Shaft, tunnel, free, steam, 10 stamps. R. A. Deane, supt.	
"	"	John Seba. Celestial, gold. Shaft, free, steam, developing. J. C. Deane, supt.	
"	"	Union Mining & Milling Co., Philadelphia, Pa., 1000 Chestnut St. R. H. Kline, M. O., pres., J. Quincy Hays, secy., Jos. R. Deane, treas., Cap. stk. \$50,000. Union, gold. Shaft, 1,000 tons, free, refractory, 10 stamps. John S. Reed, supt.	
"	"	H. J. White. Pennsylvania, gold. Tunnel, free.	
"	"	Worth & Holmes. Morning Star Extension, gold and silver. Shaft, 15 tons, refractory, steam. J. G. Worth, supt.	
Westcliffe, Ry. Colorado 25 1/2.	Custer	Bull Dog Mining & Leasing Co., Wm. M. Kent, pres., S. Z. Dickson, secy. and mgt., Henry H. Tompkins & Co., treas., Cap. stk. \$100,000. Bull Dog, silver and gold. Shaft, 1,000 tons, free, steam. W. H. Rams, supt.	
White Cross, Lake City Ry. 25 1/2 mi.	Hinsdale	Bon Home Mining Co., New Orleans, La., 14 and 16 St. Charles St. J. J. Vasek, pres., John Gilman, secy., Frank, tunnel, treas., J. L. St. Louis, mgt. and supt., Cap. stk. \$100,000. Bon Home, Lead and others, gold, silver, copper. Shaft, tunnel, refractory.	
"	"	Robert Kessock, Cap. \$100,000. Bald Eagle Mine, gold and silver. Shaft, 50 tons, refractory, steam.	
"	"	White Cross Mining & Milling Co., Geo. W. M. Hart, pres., H. L. Ripley, secy. and treas., M. L. C. Gold, mgt., Cap. stk. \$250,000. Illinois Boy, silver. Shaft, free.	
White Pine, Ry. Salt Lake City 25 1/2 mi.	Gunnison	L. P. Bonnell Superint. N. B. Silver Cloud, gold, silver, copper, lead. Shaft, refractory, steam, developing.	
"	"	Denver City Consolidated Mining Co., Pueblo, Colo., 125 Santa Fe Ave. C. L. Wall, pres., L. C. Ripley, secy. and treas., Ward A. Hurdley, mgt. and supt., Cap. stk. \$500,000. Denver City, silver and gold, 20 stamps. Tunnel, shaft, 1,000 tons, steam.	
"	"	Mathews Mining Co., S. Matthews, pres., J. F. Fox, secy., T. A. Whitely, treas., A. K. P. Fox, mgt., Cap. \$150,000. Silver, lead. Shaft, steam, developing.	
"	"	Nash & Folger, Cap. \$50,000. Red Buster, silver and lead. Tunnel, shaft, 100 tons, free.	

GOLD AND SILVER (CONTINUED).

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
White Pine—Cunningham (Continued.)	Porter & Perce, Cap. \$10,300. Monitor, lead, silver, 200 tons; free, steam.
" "	Dick Tullar, Lilley, silver. Shaft, drift, slope, 150 tons; steam.
Woodland Park, El Paso Ry. 36.	Quaker Girl Milling & Mining Co., A. B. Hackman, pres.; Geo. I. Bentley, secy.; John Ansheld, treas.; H. D. Hackman, mgr. Cap. stk. \$1,000,000. Quaker Girl, gold, silver. Shaft; free; hand (developing).
" "	Woodland Park Mining Co., A. B. Hackman, pres.; Geo. I. Bentley, secy.; N. W. Terrill, treas. Letta, gold, silver. Shaft; hand (developing). M. M. Baldwin, supt.

GYPSUM.

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
Loveland—Lathrop Ry. 776.	A. Wild, Cap. \$40,000. Gypsum. Open, pit, 6,000 tons; steam, water.
Pueblo—Pueblo Ry. 36, 215, 420, 776.	Pueblo Cement-Plaster Co., 102 W. C. St., Geo. Holmes, pres.; J. C. Uiter, secy.; Geo. F. Harpster, treas.; A. C. Daniels, mgr. Cap. stk. \$60,000. Salt Creek, gypsum. Open, pit, 20,000 tons; steam, cement mill, 20,000 tons. R. H. Randall, supt.

IRON.

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
Calumet—Chaffee P. O. Salida Ry. 215.	Colorado Coal & Iron Co., Pueblo, Colo., B. St., Edward J. Berwind, pres.; Thos. E. H. Curtis, secy. and treas.; E. M. Steck, gen. mgr. Cap. stk. \$10,000,000. Calumet Mine. Tunnel, 50,000 tons; green mag- netic; steam, 3 furnaces. T. B. Butler, supt.
Colorado City—El Paso Ry. 215.	The Pitt Pass Paint Co., Ward Hunt, pres.; J. B. Glasser, secy.; M. J. Myers Smith, treas.; B. C. Hub- bell, mgr. Cap. stk. \$150,000. Red Ruby, red oxide. Shaft, tunnel (developing).
Jamestown—Boulder Ry. 776, 14 m., 15 on ss. 10 m.	W. B. Clemens, Argo, lead, iron. Shaft, 50 tons; refractory, horse.
Leadville—Lake Ry. 36, 215, 776.	Bronze Mining Co., New York City, 115 Broadway, Chas. A. Rogers, pres.; Henry Bradstreet, secy. and treas.; J. H. Fletcher, mgr. and supt. Cap. stk. \$5,000,000. Ben Franklin, Win. Penn. Philadelphia, red hematite. Shaft, open.
Orient—Saguache P. O. Villa Grove Ry. 215.	Colorado Coal & Iron Co., Pueblo, Colo., B. St., Edward J. Berwind, pres.; Thos. E. H. Curtis, secy. and treas.; E. M. Steck, gen. mgr. Cap. stk. \$10,000,000. Orient Mine. Tunnel, 50,000 tons; red hematite, steam, furnaces. T. B. Butler, supt.

KAOLIN.

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.
TOWNS AND COUNTY.	
New Castle—Garfield Ry. 36, 215.	New Castle Kaolin Mining & Manufacturing Co., P. C. Coryel, pres. and mgr.; Max L. Shayer, secy.; J. W. Ross, treas. Cap. stk. \$50,000. Kaolin Lode. Tunnel; steam. P. C. Coryel, supt.
Silver Cliff—Custer Ry. 4, Colorado 215.	W. G. Washington, Washington, kaolin. Open, 900 tons.

LEAD AND ZINC.

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
Robinson—Summit Ry. 215, 776.	Pohl & Co., Homestake, galena. Shaft, drift; steam.
Silver Cliff—Custer Ry. 4, Colorado 215.	Fiske Bros., Susan Jane, galena, lead. Tunnel, hand (developing). August Fiske, supt.

MICA.

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
Boulder Ry. 776.	Boulder Mica Monarch Mining Co., Denver, Colo., 1025 Seventeenth st. W., Geo. N. Brown, pres., C. H. Emmons, secy. and treas., Cap. stk. \$250,000. Mica Monarch, mica. Tunnel and drifts.

PLATINUM.

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
Argentum P. O. White Cross Ry. Lake City 215.	M. E. Holland & J. H. Brown, White Cross, Colo., Dexter, platinum, tin, nickel. Tunnel, 10,000 tons.

STONE, MARBLE, GRANITE AND ONYX.

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, KIND OF MACHINERY, IMPLEMENTS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
Alabaster City, P. O. White Cross Ry. 215.	The Colorado Alabaster Co., Denver, Colo., H. C. Russell, pres., John D. Brownlee, secy., treas. and mgr. Cap. stk. \$200,000. Patagon, El Park, Chis, Summit. Tunnel, open pit, hand, horse. Chas. Buchanan, supt.
Beaver Creek, Ry. 215.	Thos. Kelso & Thompson, lime. Open hand.
Boulder Ry. 776.	Struthers & Smith, Gen. Canon, red sandstone. Hand, horse, mill, 800 tons.
Castle Rock, Ry. 215.	John Anderson, Denver, Colo., 1310 Seventeenth St. Cap. \$40,000. Palmer, lava building stone. Open, 3,000 tons, hand. Chas. Westman, supt.
"	Castle Rock Stone Co., Denver, Colo., 106 Arapahoe st., J. Thomas, pres., S. F. Hathaway, mgr. and supt., Cap. stk. \$20,000. Lava stone, white, pink, 35,000 tons.
"	The Douglas Lava Co., Colorado Springs, Colo., Gazette Bldg., P. W. O'Brien, pres. and mgr., L. J. Fisher, secy. and treas., Cap. stk. \$50,000. O'Brien, Palmer, lava. Open pit, slope. W. F. Sharp, supt.
De Beque, Ry. 215.	De Beque Mining Co., John Moore, pres. and mgr., W. J. Moore, secy. and treas., Cap. stk. \$10,000. De Beque, sandstone. Steam, 10,000 tons.
Delta Ry. 215.	J. A. Beatty, Cap. \$50. Red sandstone. Open, 90 tons, horse, hand.
Fort Collins Ry. 776.	The American Red Stone Co., Chicago, Ill., 1119 Chamber of Commerce. J. S. L. Bateman, pres. and mgr., C. S. Johnson, secy. and treas., Cap. stk. \$50,000. Pleasant Valley, red sandstone. Slope, 25,000 tons, steam. T. L. Johnson, supt.
Garfield, P. O. Monarch Ry. 215.	Harry T. Acker, Monarch, Colo., Cap. \$30,000. Fort Hope, Napoleon III, Josephine, marble and limestone. Tunnel, shaft, horse, hand, 17,500 tons. Innekin, 5,000 tons.
Gunnison Ry. 215.	Geddis & Seene, Denver, Colo., Seventh and Market sts., South Park, Aberdeen, granite. Steam.
"	C. F. Sells, Gunnison, Colo., out Virginia and Wisconsin sts., Cap. \$5,000. White Wood, limestone. Slope, 6,000 tons, hand.
Lyons Ry. 26.	Pulliam, Dewey & Co., T. L. Pulliam, pres., M. C. Dewey, secy., S. Dewey, treas., Cap. stk. \$20,000. Fair View, flagging. Open, hand, 60 tons. T. L. Pulliam, supt.
Marble, Ry. 26, 215.	Evans Williams. Colored Marble, Silver Queen, slate, marble.
"	Marble City Quarry Co., Philadelphia, Pa., 101 Arch st., R. H. Kline, pres., A. F. Douglas, secy., S. S. Kline, treas., A. J. Mitchell, mgr., Cap. stk. \$500,000. Marble. Open, shaft, tunnel, electricity.
Miller Creek, P. O. Thomasville Ry. 26.	The Miller Creek Land & Limestone Co., Edward F. Browne, pres., F. R. Beard, secy. and treas., A. A. Beard, mgr. and supt., Cap. stk. \$30,000. Miller Creek, limestone. Open, 3,000 tons, gravity tramway, lime kiln, 15,000 tons. T. F. Bennett, supt.
Peachblow Ry. 26.	The Peachblow Sandstone Co., Denver, Colo., 611 Boston Bldg., W. B. Devereux, pres., S. M. Mumby, mgr., Cap. stk. \$100,000. Red sandstone. Steam, mill.
Platte Canon Ry. 776.	M. H. Blodgett, local. Limestone. Shaft. Innekin, 90 tons.
"	Carl Bruchline, Cap. \$26,000. Jefferson county, white sandstone. Open, 10,000 tons, hand.
Pueblo Ry. 215.	A. T. Fisher, Cap. \$50,000. Cap. Horn, lime and sandstone. Open, 75,000 tons, steam, mill, Innekin, 1,000 tons.
Ridgway, Ry. 215.	R. C. Carr & Co., R. C. Carr, pres., W. Lewis, secy., C. Batters, treas., R. C. Carr, mgr. and supt., Cap. stk. \$1,000. Blue stone. Open. Innekin, 60 tons.
"	Wilcox Brothers, Cap. \$3,000. Dallas, Star Light, brown sandstone. Tunnel, 90 tons, hand.
Thomasville Ry. 26.	Perry A. Kibbough, Cap. \$10,000. The 99, limestone. Open, 24,000 tons, hand, steam. Innekin, 9,000 tons.

CONNECTICUT

COPPER

TOWN AND COUNTY.	LOCATION OF MINE, OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
Bristol	Hartford	Bristol Copper & Silver Mining Co., Col. Walter Cutting, pres't.; E. G. Hubbel, secy., treas. and mng'r.	
Ry. 514.		Cap. stk. \$300,000. Bristol, copper, silver and pyrites. Shaft; steam; mill.	

STONE, MARBLE, GRANITE AND ONYX

TOWN AND COUNTY.	LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
Bramford	New Haven	Stony Creek Red Granite Co., Samuel Babcock, pres't., Everett S. Grant, secy., George Pierce, treas. and mng'r.	
Ry. 504.		Cap. stk. \$150,000. Red Hill, granite. Slope; steam; horse; hand. W. W. Kittredge, supt.	
Bridgeport	Fairfield	E. W. Beers, 401 Broad st. Cap. \$100,000. Old Mill. Slopes, 5,000 tons, steam. Geo. Bradley, supt.	
Ry. 189, 504.			
Cornwall	Middlesex	Connecticut Free Stone Quarry Co., Robinson Gill, pres't., Frank W. Bliss, secy., Oliver W. Mack, treas.	
Ry. 431, 504.		Cap. stk. \$75,000. Free Stone, brown. Open pit, steam.	
"	"	New England Brown Stone Co., H. Wales Limes, pres't., E. B. Cowles, secy., A. Chamberlain, treas.	
"	"	Cap. stk. \$250,000. New England, brown stone. Open pit, 170,000 tons, steam. W. F. Ranney, supt.	
Danbury	Fairfield	Carpenter Bros., Port Chester, N. Y., locals. Cap. \$100,000. Gneiss. Open pit, 20,000 tons, steam.	
Ry. 402, 514.			
Fairfield	Fairfield	The R. D. Pierce Jr. Co., Bridgeport, Conn., 274 Main st. D. B. Pierce jr., pres't. and treas., T. B. Hastings, v. pres't., J. J. Anderson, secy.	
Ry. 504.		Trap Rock, trap rock. Open pit, 30,000 tons, steam.	
Glastonbury	Hartford	H. R. Brooks, East Glastonbury, Conn. Cap. \$100,000. Nippsis, Lily Pond, gray granite. Open pit, 1,000 tons, hand.	
Ry. South Manchester 514.			
Greenwich	Fairfield	John Voorhis, New York City, N. Y., 403 E. Forty-second st. Cap. \$75,000. Greenwich State Quarries, granite. Open cut, 15,000 tons, horse. John Smith, supt.	
Ry. 187.			
Guilford	New Haven	Darwin N. Benton. Saelens's Bend, granite. Steam.	
Ry. 504.			
Island, New Haven		John Beattie. Cap. \$100,000. Beattie, granite. Open pit, 18,000 tons, steam.	
Ry. 504.			
Middletown	Middlesex	Columbian Granite Co., J. G. Murphy, pres't., A. S. A. Hummel, right, secy., W. A. Engemann, treas.	
Ry. 504.		Cap. stk. \$50,000. Berneuse, granite. Open pit, steam developing.	
"	"	Whitmore Bros., N. H. Whitmore, mng'r. Cap. stk. \$100,000. Maromas Quarry. Open pit, 200,000 tons, steam.	
Portland	Middlesex	Bramerd Quarry Co., Le Roy Bramerd, pres't. and mng'r., Frank Bramerd, secy. and treas.	
Ry. 187, 504.		Cap. stk. \$40,000. Bramerd, brown stone. Open pit, 45,000 tons, steam.	
"	"	Middlesex Quarry Co., Murray Hill Hotel, New York. Ferdinand Gilderleeve, pres't., Chas. A. Jarvis, secy. and treas., I. W. Russell, mng'r. Cap. stk. \$500,000. Middlesex, sandstone. Open pit, 40,000 tons, steam, horse, hand, mill.	
"	"	Slader & Hall Quarry Co., John H. Hall, pres't., W. H. Edwards, secy. and treas., Fred De Peyster, mng'r. Cap. stk. \$100,000. Sandstone. Open pit, 50,000 tons, steam. Samuel R. Whitby, supt.	
Roxbury	Litchfield	F. Mower & Co. Cap. \$75,000. Mine Hill, granite. Open pit, 30,000 tons, horse. R. T. Blades, supt.	
Tr. Roxbury Station Ry. Roxbury 669.			
Stonington	New London	Murray & Co., Westerly, R. I. Cap. stk. \$5,000. West Side, granite. Open pit, 5,000 tons, steam.	
Ry. 608.			
Warren	Litchfield	Frank P. Bolles, New Milford, Conn. Comstock Quarry. Slope, 100 tons; hand.	
Tr. Cornwall Bridge 432.			
Waterford	New London	Davis Bros., Nantico, Conn. Winter Davis, mng'r. Cap. \$15,000. Davis Granite Quarries, white granite.	
Ry. 504.			
Willimantic	Willimantic	Edson & Calkins, Willimantic, Conn., Quarry st. Granite. Open pit, 10,000 tons, steam and hand.	
Ry. Willimantic 129.			

DELAWARE

STONE, MARBLE, GRANITE AND ONYX

TOWN AND COUNTY.	LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
Wilmington	New Castle	Brandywine Granite Co., Wilmington, Del. William M. Field, pres't. and treas., Merrick Horn, secy.	
Ry. 12, 504, 520.		Cap. stk. \$80,000. Granite. 15,000 tons, steam, horse, hand. George Patterson, supt.	
"	"	John H. Flaker, Wilmington, Del., 46 E. Eleventh st. Cap. \$1,500. Brandywine Quarry, granite. Open pit, 2,000 tons, horse, hand.	

FLORIDA

KAOLIN

LOCATION OF MINE
OR BANK,
RAILWAYS, WATER ROUTES,
AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER
USED, ETC., AND NAME OF SUPERINTENDENT.

TOWNS AND COUNTY

Bloomfield Lake Bloomfield Kaolin & Phosphate Mining Co., Col. Alex. Lynch, pres't., Hon. H. L. Anderson, sec'y., Col.
Ky., Leesburg 263 and
265, A. J. Shipman, treas., J. S. Wither, mgt., Cap. stk. \$30,000. Developing.

MINERAL PAINT

LOCATION OF MINE
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND
OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

TOWNS AND COUNTY

Seville Avonida Florida Iron Mining & Manufacturing Co., Orlando, Fla., R. H. Peck, pres't., H. H. Dickson, sec'y., Cap.
Ky., Campbell's Sta. 42, stk. \$20,000. Terra maranguese and yellow ochre. Open.

PHOSPHATE

LOCATION OF MINE
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME AND KIND OF MINE, NAME AND LOCATION OF OFFICE, TONS OF 2,000 POUNDS, KIND OF POWER,
MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

TOWNS AND COUNTY

Avonida Avonida Massachusetts Phosphate Co., Portland, Me., John F. Ayer, pres't., C. F. Ayer, sec'y. and treas.,
Ky., 265, 691, John F. Ross, mgt., Cap. stk. \$100,000. Massachusetts pebble. Open, steam mill, 10,000 tons.
James Ross, supt.

United States Phosphate Co., Boston, Mass., and Exchange Bldg., E. J. Heffernan, pres't., C. Hale, sec'y.,
Ben C. Leonard, treas., W. S. C. O'Connell, mgt., United States pebble and rock. Open and 100,000 tons.
Steam mill, 10,000 tons. Ayer & Heffernan, supt.

Albion Albion Albion Mining & Manufacturing Co., Cambridge, Fla., D. C. Camp, pres't., R. J. Camp, sec'y. and treas.,
Ky., 261, W. N. Camp, mgt., Cap. stk. \$30,000. Camp rock. Open, 100,000 tons. Steam.

Albion Phosphate Mining Co., Baltimore, Md., J. S. Taylor, pres't., Angus Cunningham, pres't., Henry J. Bowdon,
sec'y. and treas., Malcolm S. Cunningham, mgt., Cap. stk. \$30,000. Albion rock. Open, steam and horse.

Osceola Phosphate Co., New York City, N. Y., 10 Whitehall st., W. A. Kossing, pres't., G. J. Bradish,
sec'y. and treas., Fred C. O'Connell, mgt., Rock. Open.

Portland Phosphate & Chemical Co., Portland, Me., Donald H. DeLamond, pres't., Lorenzo Taylor, sec'y.
treas. and mgt., Cap. stk. \$20,000. Portland rock. Open, jet, hand, & F. Taylor, supt.

Avonida Avonida Anglo-Florida Phosphate Co., Okla. Terr., Opera House Bldg., H. H. Graham, pres't., P. J. Baehner,
Ky., 261, and Ky. 261, S. M. Meek, treas., Cap. stk. \$20,000. Anglo rock. Open, 5,000 tons. Steam mill, 5,000
Spring 678, tons. H. H. Graham, supt.

Anthony Avonida The Anthony Phosphate Co., Anthony, Fla., Jos. W. Weiss, pres't., Henry S. Kodina, sec'y. and mgt.,
Ky., 261, The Anthony Mfg. Co., Cap. stk. \$100,000. Anthony steam mill, 10,000 tons.

American Phosphate Co., Enola, H. M. O'Connell, sec'y. and treas., A. F. O'Connell, mgt., American rock. Steam
mill, 15,000 tons. T. W. Felt, supt.

The Central Florida Phosphate Co., New York City, 120 Broadway, Delavan C. Seaville, pres't., Julian
Haythorne, sec'y., Reuben T. and Geo. P. Felt, mgt., Cap. stk. \$20,000. Central Florida
pebble. Open, 10,000 tons. Steam.

Compagnie des Phosphates de France, Paris, France, & Place Vendôme, E. L. L. & Co., pres't., G. Deleury,
mgt., Cap. stk. \$1,000,000. Open, 10,000 tons. Steam mill, 10,000 tons.

Deacon Co., Thos. R. Baker, mgt., Deacon pebble. Steam mill, 1,000 tons.

Knott Bros., Cap. \$30,000. Knott rock. Open, 7,500 tons. Steam mill, 7,500 tons. J. L. B. O'Connell, supt.

Lindber Phosphate Co., Cap. stk. \$1,000. Lindber rock. Open, steam drive, mgt.

Lut. Phosphate Co., Hagerstown, Md., Lut. rock. Open, steam mill.

Maryland Phosphate Co., W. M. McDowell, mgt., Cap. stk. \$12,000. Maryland rock. Open, 5,000 tons.
Steam mill, 5,000 tons.

Plate Rock Phosphate Co., W. T. Adams, pres't., W. M. Ross, sec'y., Cap. stk. \$10,000. Plate Rock rock.
Open, 5,000 tons. Steam.

The Stratton Phosphate Co., Jacksonville, Fla., J. M. Thayer, pres't. and mgt., N. S. Palmer, mgt.
and treas., Cap. stk. \$100,000. Stratton rock. Open, 5,000 tons. Steam.

Avonida De Soto Arcadia Phosphate Co., Savannah, Ga., Geo. Ray, st. Joseph Hill, pres't., H. P. Richmond, sec'y. and
Ky., 261, treas., Cap. stk. \$30,000. Arcadia pebble. De Soto, 5,000 tons. Steam. W. A. O'Connell, supt.

Charlottesville Harbor Phosphate Co., Savannah, Ga., Geo. Ray, st. Joseph Hill, pres't., H. P. Richmond, sec'y.
and treas., Cap. stk. \$30,000. Charlottesville Harbor pebble. De Soto, 5,000 tons. Steam. W. A. O'Connell, supt.

Avonida Avonida Seminole Hard Rock Phosphate & Land Co., Jacksonville, Fla., J. L. O'Connell, pres't., A. O. McDowell,
Ky., 261, sec'y., George A. Maxwell, treas., Cap. stk. \$1,500,000. Seminole rock and pebble.

PHOSPHATE (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 LBS. EACH, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	COUNTY		
Bartow Ry. 691.	Polk	Bartow Phosphate Co., Charleston, S. C., W. B. Chrisolm, prest. and treas.; R. G. Chrisolm, secy., L. R. Chazal, mgr., Cap. stk. \$250,000. Bartow, Open; steam (developing).	
"	"	Homeland Mining & Land Co., W. H. Justin, prest. and treas.; W. H. Luedry, secy., Cap. stk. \$60,000. Homeland, pebble. Open, 1,500 tons; steam; mill.	
"	"	The Lake Hancock Pebble Phosphate Co., R. W. Price, prest.; O. R. Price, secy.; T. M. Lybass, treas. and mgr., Cap. stk. \$100,000. Lake Hancock, pebble. Open, 30,000 tons; steam. T. M. Lybass, supt.	
"	"	Land Pebble Phosphate Co., Savannah Ga., L. W. Haskell, prest., treas., mgr., Cap. stk. \$80,000. Pebble. Open, steam, horse and hand, mill. B. H. Heyward, supt.	
"	"	Mastodon Pebble Phosphate Co., Jay Shrader, prest.; G. A. K. Stevens, secy. and mgr., Warren Tyler, treas., Cap. stk. \$50,000. Lake Hancock. Dredge, 20,000 tons; steam. J. T. Wear, supt.	
"	"	Moore & Tatam Phosphate Co., A. G. Moore, prest., secy. and mgr., J. H. Tatam, treas., Cap. stk. \$25,000. Moore & Tatam, pebble. Open, steam.	
"	"	Saddle Creek Phosphate Co., Vicksburg, Miss., C. T. Seattles, prest.; A. G. Russell jr., secy., treas.; T. M. Seattles, mgr., Cap. stk. \$300,000. Saddle Creek, pebble. Steam; expect output to reach 30,000 tons.	
Bellevue Ry. Greenleaf 263.	Marion	Bellevue Mining Co., Jacksonville, Fla., 15 and 17 Tonayth st., C. B. Smith, prest. and mgr., W. F. Coleman, secy., D. Greenleaf, treas., Cap. stk. \$10,000. Bellevue, soft. Open, 5,000 tons; steam. H. S. McKee, supt.	
Bloomfield Ry. Leesburg 263, 265.	Lake	Lake County Phosphate & Fertilizing Co., Geo. H. Tiffany, prest., Wm. D. Mendenhall, secy., Dr. Warren Spencer, treas., mgr., Cap. stk. \$20,000. Bloomfield, rock. Open, steam; mill, 3,000 tons. Ambrose Spencer, supt.	
Blue Spring Ry. Ferdinand 674.	Marion	Stonevald Phosphate Co., Jacksonville, Fla., J. R. Tysen, prest., Bryan Talliandro, secy., treas., Cap. stk. \$300,000. Phosphate, rock. Open pit, 25,000 tons; steam.	
Bowling Green De Soto Ry. Port Tampa 265, 691.	De Soto	National Peace River Phosphate Co., Jacksonville, Fla., 26 Main st., J. W. Archibald, prest.; A. F. Perry, secy., W. J. Harkinsheimer, treas.; R. N. Ellis, mgr. and supt., Cap. stk. \$100,000. Pebble, Steam, dredge, mill, 20,000 tons.	
Bronson Ry. Ferdinand 263.	Levy	Bronson Pebble Phosphate Mining & Land Co., J. M. Barco, prest., P. M. Colson, secy., W. J. Epperson, A. prest. and treas., Cap. stk. \$150,000. Bronson, rock and pebble. Open pit.	
"	"	Suwannee River Phosphate Co., Atlanta, Ga., G. E. Ababama st., M. Harroldson, prest., W. I. Zachry, secy., J. H. Porter, treas., Cap. stk. \$2,000,000. Suwannee River, rock and pebble. Open, C. P. Turner, supt.	
Cleveland Ry. 31	De Soto	Gulf Phosphate Mining & Manufacturing Co., Charleston, S. C., 2 Exchange st., E. C. Williams jr., prest., A. J. Salinas, secy. and treas., E. L. Roche, mgr., Cap. stk. \$240,000. Pebble, 35,000 tons; steam, dredge; mill, 45,000 tons.	
Cow Creek P. O. and Ry. Fort White 678.	Alachua	The Columbian Phosphate Co., of Florida, Jacksonville, Fla., N. E. cor. Bay and Main sts., C. C. Robertson, prest., Charles H. Smith, secy.; W. G. Toomer, treas., Cap. stk. \$50,000. Cow Creek, rock. Open pit; steam; mill, 30,000 tons.	
Dade City Ry. 263, 691	Pasco	T. C. Fuller, Macon, Fla., Cap. \$5,000. Dade City Mines, rock. Open pit, 1,000 tons; hand.	
Delaware (E. O. Pemberton) Ry. 691.	Hernando	The Pasco Phosphate Co., Chicago, Ill., Monmouth Bldg., Chester R. Davis, prest., Franklin L. Chase, secy., Levi A. Elrod, treas.; C. M. Wend, mgr. and supt., Delaware. Open pit, 25,000 tons; horse, hand.	
Dunnellon Ry. 263.	Marion	Marion Phosphate Co., Savannah, Ga., Cotton Exchange Bldg., Georgia, Eldwin, prest., Wm. W. Rogers, secy., treas., J. Charles H. Smith, secy.; J. E. Robeson, mgr., Cap. stk. \$500,000. Rock. Open, steam, horse, hand, mill. Josiah Flournoy, supt.	
"	"	Ocala & Blue River Phosphate Co., Ocala, Fla., Chas. N. White, prest. and treas.; L. Dozier, secy., M. W. Ellis, mgr. and supt., Cap. stk. \$3,000,000. Elliston and Verda, rock. Open, 11,400 tons; steam, horse.	
Eagle Mines Ry. 263.	Marion	Eagle Phosphate Co., Hartsburg, Pa., A. T. McCreath, prest., Ross Wilkins, secy. and treas., Geo. E. Fotts, mgr., Cap. stk. \$2,000,000. Rock. Open, 10,000 tons; steam, mill, 15,000 tons. Jos. C. Williams, supt.	
Fort Meade Ry. 263.	Polk	Chilocopeo Phosphate Co., H. E. Crawford, prest., F. E. Crawford, mgr., Cap. stk. \$500. Chilocopeo, Open, 1,000 tons; horse, mill, 1,500 tons.	
"	"	Fort Meade Phosphate, Fertilizing, Land & Investment Co., H. B. Smith, prest., M. R. Cooper, secy. and treas., J. E. Robeson, mgr., Cap. stk. \$50,000. Fort Meade, pebble, steam.	
"	"	Virginia Florida Phosphate Co., Petersburg, Va., Steamers st., Pascal Davis, prest., L. E. Balmer, secy. and treas., T. R. Dunn, mgr., Cap. stk. \$3,000,000. Elliston and Verda, rock. Open, 11,400 tons; steam, horse.	
Fort Myers (Not a P. O. Ry. Boca Grande 301.	Lee	Florida Phosphate Mining, Transportation & Storage Co., Bartow, Fla., J. R. Brownell, prest., J. S. Pence, secy., J. H. Tatam, treas., Cap. stk. \$50,000. Pebble. Steam dredge, 10,000 tons; steam.	
Fort White Ry. 678.	Columbia	Argyle Phosphate Co., W. W. Richards, prest., W. E. McKay, mgr., Cap. stk. \$100,000. Argyle, 1,000 tons; steam.	
"	"	Columbian Phosphate Co., Jacksonville, Fla., cor. Bay and Main sts., C. C. Robertson, prest., C. H. Smith, secy., W. G. Toomer, treas., Cap. stk. \$300,000. Columbia, rock. Open, hand and steam.	
"	"	Fort White Phosphate Co., Kansas City, Mo., 719 Walnut st., E. B. Robeson, prest., W. D. Clark, secy. and treas., R. G. Perry, mgr. and supt., Rock. Open, 12,000 tons; steam.	
Gamesville Ry. Fort White 678.	Alachua	Magnolia Mgr. Co., E. C. E. Smiths, prest., F. Boyar, secy., B. W. Fontana, mgr., Cap. stk. \$50,000. Pebble, 5,000 tons; horse, mill, 5,000 tons.	
"	"	Paradise Fertilizer Co., J. W. Ashby, prest., O. J. Mont, secy., treas. and mgr., Cap. stk. \$3,500. Bone and pebble. Open, steam, mill, 6,000 tons.	
Haskell Ry. Port Tampa 691.	Polk	Mastodon Pebble Phosphate Co., Bartow, Fla., Dr. Jay Shrader, prest., G. A. K. Stevens, secy. and mgr., Warren Tyler, treas., Cap. stk. \$50,000. Mastodon, Pebble Mines. Dredge, 15,000 tons; steam, mill, 15,000 tons. J. T. Wear, supt.	
Herknong Ry. 678.	Columbia	Ichetucknee Phosphate Co., Jacksonville, Fla., Court House, M. C. Rice, prest., J. C. Cooper, secy.; A. B. Barwood, treas. and mgr., Cap. stk. \$35,000. Ichetucknee, rock. Open, steam.	

PHOSPHATE (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Hernando, Ry. 263, 674.		Citrus	Globe Phosphate Mining & Manufacturing Co., Ocala, Fla., J. R. Buzes, pres.; W. S. Turner, secy.; C. S. Young, treas., Cap. stk. \$2,400,000. Globe, lime, Open, 2,000 tons, hand. M. L. Tuttle, supt.	
"		"	Ernest Vager, Leesburg, Fla., Cap. \$10,000. Chumax, pebble, Open, hand.	
High Springs Ry. 691.		Alachua	Anglo Florida Phosphate Co., Ocala, Fla., 1 Opera House Block, H. H. Graham, pres.; and mgr., P. J. Treacher, secy.; G. C. Stevens, treas., Cap. stk. \$900,000. Rock, Open, steam and hand, mill, 35,000 tons. H. H. Graham, supt.	
"		"	Excelsior Phosphate Co., Jacksonville, Fla., Henry M. Brooks, pres.; W. S. Prindle, secy. and treas., Cap. \$1,000,000. Excelsior Mine, 15,000 tons, steam.	
"		"	H. F. Dutton & Co., Gainesville, Fla., C. W. Chase, mgr., Rock, Open, 20,000 tons, steam. L. O. Gold, supt.	
Honeland Ry. 265.		Polk	Honeland Mining & Land Co., Cincinnati, Ohio, 180 Walnut st., W. H. Justice, pres.; W. H. Lenders, secy.; F. R. Nagerhaus, treas., M. W. La Rue, mgr., Cap. stk. \$50,000. Honeland, pebble, Dredge, steam, mill, M. W. La Rue, supt.	
"		"	Whitaker Phosphate Co., Kansas City, Mo., 716 Delaware st., Dr. H. C. Crowell, pres.; J. A. Moninger, secy.; Robert M. Snyder, treas., M. S. Bowden, mgr., Cap. stk. \$90,000. Pebble mines, Open, 4,500 tons, steam, mill, kiln, 6,000 tons. Miles Morandey, supt.	
Inverness, Ry. 674, 691.		Citrus	Cove Bend Land & Phosphate Co., W. K. Jackson, pres.; and mgr., R. P. Moore, secy.; W. H. Meadow, treas., Cap. stk. \$200,000. Phosphate lime, Open, steam.	
"		"	Gem Phosphate Co., Leesburg, Fla., M. W. Lovell, pres.; C. P. Lovell, secy. and treas., Cap. stk. \$50,000. Rock developing.	
Kendrick Ry. 265.		Marion	Standard Phosphate Mining & Chemical Co., Alexandria, Va., A. H. Aznew, pres.; and mgr., M. B. Harlow, secy. and treas., Cap. stk. \$50,000. Matilda, rock, Open, steam. H. L. Anderson, supt.	
La Crosse, Ry. Hagan 678.		Alachua	Lanellon Phosphate & Fertilizer Co., Horatio Davis, pres.; W. J. Way, secy. and treas.; Wm. Blake, mgr. and supt., Cap. stk. \$50,000. Lanellon, phosphate, Open, 3,000 tons, steam, mill, 3,000 tons.	
Lake City Ry. Bradford 658.		Columbia	Columbia Phosphate Co., James I. Young, pres. and treas., A. B. Hart, secy. and mgr., Cap. stk. \$50,000. Rock, Open, 2,500 tons, hand.	
"		"	Lake City Land & Timber Co., 17 Railroad st., James I. Young, pres.; A. B. Hart, secy.; J. A. Crawford, treas.; Jas. C. Goffen, mgr., Cap. stk. \$50,000. Rock, Open, 3,000 tons.	
Lakeland Ry. Port Tampa 265.		Polk	Bone Valley Phosphate Co., Boston, Mass., 309 Washington st., Orth L. Gray, pres.; C. E. Hale, secy.; L. W. Hastings, treas.; John Beatty, mgr., Cap. stk. \$50,000. Bone Valley, pebble, Open, 50,000 tons, steam, mill, 50,000 tons. F. O. Warner, supt.	
Liverpool Ry. Charlotte Harbor 31.		De Soto	South Florida Phosphate Co., F. I. Woodcock, pres.; J. H. Fatum, secy.; J. S. Renner, treas. and mgr., Cap. stk. \$150,000. Peace River, pebble, rock, Open, 15,000 tons, steam, pump, mill, 15,000 tons.	
Macon Ry. 263, 691.		Pasco	Ceres Phosphate Mines, Cap. \$50,000. Ceres Mines, rock, Open, 2,000 tons, steam, mill, 4,000 tons. T. A. Follett, supt.	
Marionville, Ry. 698.		Hillsboro	Pebble Phosphate Co., Jacksonville, Fla., D. E. Ray st., John L. Marvin, pres.; Elan Burwell, secy.; Chas. Marvin, treas.; E. P. Yalliatre, mgr. and supt., Cap. stk. \$100,000. Pebble, Pump, 20,000 tons, steam, mill, 20,000 tons.	
Middleburg Ry. Jacksonville 678.		Clay	Black River Phosphate Co., Jacksonville, Fla., D. W. Ray st., D. G. Ambler, pres.; J. A. C. Stockton, secy.; treas. and mgr., Cap. stk. \$200,000. Black River, pebble, Pump, shaft, 2,000 tons, steam, mill, 25,000 tons.	
Myers Ry. 311.		Lee	Calossahatchee Phosphate Co., Tampa, Fla., Chas. A. Green, pres.; W. D. Lewis, secy.; treas. H. F. Standard, mgr., Cap. \$70,000. Steam dredge, just commenced.	
Ocala Ry. 263, 265, 674.		Marion	Chicago Florida Phosphate Co., 1 Opera House Block, F. E. Rice, pres.; Henry S. Merritt, secy.; C. B. Van Kirk, treas.; P. J. Treacher, mgr., Cap. \$2,000,000. Hard rock, phosphate, Open pit, just commenced, steam, mill, 20,000 tons. L. E. Buser, supt.	
"		"	Ohio Phosphate Co., G. H. DeGolyer, pres.; A. F. Herold, secy. and treas., Cap. stk. \$50,000. Ohio, rock, Open, 5,000 tons, steam.	
Orlando Ry. 267, 269, 691.		Polk	Standard Pebble Phosphate Co., John H. Talbott, pres.; J. S. Bradshaw, secy.; Nat. Pevitz, treas.; F. E. Rose, mgr. and supt., Cap. stk. \$50,000. Standard, pebble, Steam.	
Paradise, Ry. 678.		Alachua	Paradise Fertilizer Co., Gainesville, Fla., John W. Ashby, pres.; O. J. Mott, secy.; treas. and mgr., Cap. stk. \$25,000. Phosphate bone, Open, steam, mill, 3,000 tons.	
Pemberton Ry. Bonnie May Switch 691.		Hernando	M. C. Reddell & Co., Dade City, Fla., Bonnie May, pebble, Open pit, 5,000 tons, steam, mill, 5,000 tons. M. C. Reddell, supt.	
Perry Ry. Madison 263.		Lafayette	National Phosphate & Mining Co., McKeesport, Pa., W. A. Dunshire, pres.; F. E. Devenny, secy.; L. F. Dearborn, treas.; L. A. Condon, mgr. and supt., Cap. stk. \$200,000. Rock, Open pit developing.	
Peru Ry. Hillsborough Ry. Tampa 263, 691.		Hillsborough	Peruvian Phosphate Co., Tampa, Fla., Lock Box 58, W. I. Roberts, pres.; G. R. Roetz, secy. and treas.; Cap. stk. \$50,000. Rock and pebble.	
Phosphate Ry. De Soto Ry. Tampa 265, 691.		De Soto	Jacksonville Peace River Phosphate Co., Jacksonville, Fla., cor. Bay and Main sts., Henry Robinson, pres.; A. R. Campbell, secy.; John L. Marvin, treas.; A. G. Bledlow, mgr., Cap. stk. \$1,000,000. Jacksonville Peace River, pebble, Dredge, 20,000 tons, steam.	
Phosphoria Ry. 265, 691.		Polk	The Florida Phosphate Co., Ltd., London, Eng., 1 Fenchurch av., Edward Beckard, jr., pres.; Oscar Michael, secy.; W. S. Warner, mgr., Cap. stk. \$1,000,000. Rock, Open, 20,000 tons, steam, mill, 30,000 tons.	
Plant City Ry. 263, 691.		Hillsborough	The People's Pebble Phosphate Co., Oris Gray, pres.; Francis M. Thomas, secy.; Fred S. Wood, treas.; treas., Cap. stk. \$50,000. Pebble, Open, 4,500 tons, steam dredge.	
Rock Springs, Ry. 674.		Marion	Piedmont Coal & Phosphate Co., Piedmont, W. Va., John Sheridan, pres.; W. L. Blackstone, secy.; J. S. Jamieson, treas.; Jas. M. Graham, pres. and mgr., Cap. stk. \$100,000. Rock Springs, rock, Open, 10,000 tons, steam, mill, 20,000 tons. Edward Miller, supt.	
Rockwell Ry. Fernandina 674, 691.		Marion	Dunnellon Phosphate Co., John L. Inglis, pres.; L. A. Foxat, secy.; John L. Pinn, treas.; Cap. stk. \$1,200,000. Dunnellon, rock, Open, dredge, 50,000 tons, steam. Geo. A. Wells, supt.	

PHOSPHATE—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN AND COUNTY.		
Spurr Ry. 263.	Marion	Ziegler Phosphate Co., Ocala, Fla., Hafele Block. Thos. M. Crocker, pres.; Geo. W. Brown, secy.; Hugh E. Miller, treas.; C. C. Hutton, mgr. Cap. stk. \$200,000. Ziegler, pebble. Open, 1,000 tons; hand. C. C. Hutton, supt.
Summerfield Ry. 263.	Marion	Carney Phosphate Co., J. J. Cowan, pres.; Jos. Hursh, secy.; P. M. Harding, treas.; R. S. Buck jr., mgr. Cap. stk. \$200,000. Carney, pebble. Open, steam, horse and hand, mill.
Tallahassee Ry. 263.	Leon	La Pierre Phosphate Co., Geo. W. Saxon, pres.; E. Dubois, secy.; Geo. Maginnis, treas.; W. L. Davids, mgr. Cap. \$50,000. Davids & Seabury Mining Co., rock. Tunnel, steam. Fred A. Seabury, supt.
Tampa Ry. 263, 629.	Hillsborough	Tampa Phosphate Co., Dr. H. T. Lykes, pres.; O. G. Sexton, secy. and treas.; Burton E. Coe, mgr. Cap. stk. \$25,000. Pebble. 10,000 tons; steam, dredge.
Welshton Ry. 263.	Marion	Cornwall Phosphate Co., Boston, Mass., 8 Deane st., John H. Welsh, mgr. Cap. \$40,000. Cornwall, rock. Open, 700 tons; hand, mill, 1,500 tons. John H. Welsh, supt.
"	"	Joseph F. Dean, Palatka, Fla., Emmett St. Cap. \$200. Cornwall, rock. Open, 700 tons; hand, mill, 3,000 tons. John H. Welsh, supt.

GEORGIA

COAL—BITUMINOUS

LOCATION OF MINE,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.

TOWN AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED,
COAL-BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.

Durham Walker
P. O. and Ry. Chika-
munga 126, 280.

Chickamauga Coal & Iron Co., S. I. Pittott, pres., and mgt., Gordon Lee, secy. and treas., Cap. stk., \$500,000. Durham. Tunnel, 200,000 tons; horse, 200 coke ovens under construction. J. T. Harris, supt.

GOLD AND SILVER

LOCATION OF MINE,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.

TOWN AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 200 POUNDS, KIND
OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Cunningham Forsyth
Ry. Buford 622.

Sawnee Mountain Mining Co., H. Estes, pres., Dr. John Hockenfull, treas., J. O. James, mgt. and supt., Sawnee Mountain, gold. Placer, free.

Dalhousie Lumpkin
Ry. Gainesville 280,
622.

Phoenix Gold Mining Co., East St. Louis, Ill., Robert Bowman, pres., F. E. Dickie, secy., C. C. Kendall, treas., Cap. stk. \$300,000. Phoenix, gold. Placer.

" "

Trade of Georgia Gold Mining Co., Weeping Water, Neb., T. K. Clark, pres., George Hindley, secy., T. M. Howard, treas., David Hunter, mgt. and supt., Cap. stk. \$120,000. Trade of Georgia, gold. Shaft, open pit, refractory, free steam, water.

" "

Waverly Mining Co., St. Louis, Mo., Room 57 Turner Bldg., T. O. Goodrey, pres., G. H. Ten Brook, secy., A. W. Train, treas., Cap. stk. \$100,000. Waverly, gold. Open pit.

New England City Dade
Ry. 240

Aldie May Mining Co., Portland, Me., 98 Exchange St., Walter T. Emery, pres., Wm. H. Emery, secy., T. J. Fletcher, treas., Cap. \$100,000. Aldie May, developing.

Washington Wilkes
Ry. 280.

Thomas M. Garrett, Sons & Co., Stony Ridge, gold. Shafts. Free steam, 7500 tons. T. M. Garrett, supt.

IRON

LOCATION OF MINE,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.

TOWN AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 200 POUNDS, KIND
OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

Lane Spring Floyd
Ry. 240

Georgia Manganesic & Mining Co., J. M. Cooper, pres., J. H. Cooper, secy. and treas., and mgt., Cap. stk. \$100,000. Manganesic. Shaft, open pit, 25,000 tons. Steam.

Columbia Polk
Ry. 254

North Georgia Mining Co., H. N. Van Dender, secy. and treas., W. L. Hickman, mgt., Cap. stk. \$15,000. Ledbetter, hematite. Open pit, 20,000 tons. Steam. Robert McCarty, supt.

Emmett Bartow
Ry. 807.

Brown & Jones, C. M. Jones, pres., M. H. A. Jones, secy. and treas., H. A. Holland, mgt., Cap. stk. \$80,000. Cap. mty. \$15,000. Brown, hematite. Open pit, tunnel, 200,000 tons. Steam.

Elma Polk
Ry. 240

Elma Furnace Co., Rome, Ga., Hamilton Block, D. E. Hamilton, pres., Harpo Hamilton, secy. and treas., Cap. stk. \$20,000. Elma Mine, hematite, 100,000 tons. Steam, water, horse, hand, furnace. A. T. and J. J. Hamilton, supts.

MICA

LOCATION OF MINE,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.

TOWN AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF MINE, KIND OF QUARTZ, KIND OF QUARTZ, ANNUAL OUTPUT IN TONS OF 200 POUNDS, KIND
OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.

Canton Cherokee
Ry. 120.

Georgia Mica & Mineral Co., Ashtabula, Ohio, D. G. Palmer, pres., H. Lassell, secy. and treas., Cap. stk. \$20,000. Mica, kaolin. Shaft and tunnel. Hand, horse.

SLATE

LOCATION OF QUARRY,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.

TOWN AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF QUARRY, KIND OF SLATE, KIND OF QUARRY, ANNUAL OUTPUT IN TONS OF 200 POUNDS,
KIND OF POWER USED, MILLS, ETC., AND NAME OF QUARRY SUPERINTENDENT.

Rock bluff Polk
Ry. 240, 244.

W. W. Jones & Co., Cap. \$10,000. Slate. Open, 1,000,000 tons. Horse, hand. W. W. Jones, supt. and mgt.

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILL, LIZARD'S AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT	
TOWNS	AND	COUNTY		
Covington Ry., 250.		Newton	H. C. & S. J. B. Freeman.	Granite. Hand.
Chawford Ry., 284.		Oglethorpe	Georgia Granite Works.	Cap. stk. \$5,000. Johnston, granite. Open pit, 2,500 tons; hand; mill. A. D. L. Mays, supt.
Graysville Ry., 307.		Caloosa	Graysville Mining & Manufacturing Co.	Tons Hamburger, prest.; L. A. Camp, secy., treas. and mgr. Cap. stk. \$250,000. Limestone, fluxing stone. Open pit, 30,000 tons; steam; kiln, 50,000 tons. H. M. Harris, supt.
Holly Springs, Ry., 420.		Cherokee	Kenesaw Marble Co., Marietta, Ga.	B. R. Legg, prest.; Geo. F. Newell, secy., treas. and mgr. Cap. stk. \$100,000. Verde Antique, marble. Open pit, steam; mill.
Lithonia, Ry., 280.		De Kalb	Jenkins & Co.	Cap. stk. \$1,000. Lithonia, granite.
"		"	M. E. Maher, Atlanta, Ga., 171 Mangum st.	Cap. \$75,000. Granite. 35,000 tons; steam.
"		"	Southern Granite Co., Atlanta, Ga., Kimball House.	George Moerlein, prest.; J. A. Eberhardt, secy., treas. and mgr. Cap. stk. \$100,000. Granite. 30,000 tons; steam, hand.
"		"	Wilson Bros.	Wilson, granite. Open pit, 8,500 tons; hand.
Marble Hill Ry., Tate 420.		Pickens	Southern Marble Co., O. W. Norcross, prest.; Z. D. Harrison, secy. and treas.	Crystalline, white marble. Open pit, 6,000 tons; steam, mill. J. C. Games, supt.
Nelson Ry., 420.		Pickens	Blue Ridge Marble Co., Jno. W. Stoddard, prest.; Harry Dewar, secy. and treas.	Frank Dewar, mgr. Cap. stk. \$1,000,000. Georgia, marble. Mill.
Sparta Ry., 250.		Hancock	Georgia Quincy Granite Co., Macon, Ga., Exchange Bank Bldg.	T. E. Artope, prest.; Jos. W. Palmer, secy. and treas.; T. E. Artope, mgr. Cap. stk. \$50,000. Granite. Slope, 10,000 tons; steam, hand; polishing mill. J. L. Mullally, supt.
Stockbridge Ry., 240.		Henry	M. E. Maher, Atlanta, Ga., 171 Mangum st.	Cap. \$75,000. Granite. 40,000 tons; steam.
Stone Mountain Ry., 280.		O'Kall	Beauchamp & Thompson.	Stone Mountain, granite. Open; hand.
Tate Ry., 420.		Pickens	Georgia Marble Co., H. C. Clement, prest.; O. F. Bane, secy. and treas.; George H. Keeler, mgr.	Cap. stk. \$1,500,000. Verde, Cherokee and 4 other mines, marble. 40,000 tons; steam; 2 mills.

TALC

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Spring Place Ry., Dalton 240, 307		Murray	The Cohutta Talc Co., Wm. C. Tilton, prest. and supt., John G. Gould, secy. and treas., Henry G. Grazier, mgr.	Cap. stk. \$1,000,000. Cohutta, talc. Open pit, 1,000 tons; hand, steam, mill.

IDAHO

COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATIONS OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY	
Hope Ry. Cabinet 529.	Kootenai John Thurber, Cabinet, Idaho. Idaho King. Tunnel, hand.

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATIONS OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY	
Banner Ry. Boise City 776-60 miles.	Elmore Silver Mining Co., Elmore, N. Y. L. J. Barney, pres.; N. P. Frisett, secy.; C. Prosser, treas.; A. P. Boyer, mgt., and supt. Cap. stk. \$100,000. Banner, Crown Point, Wolverine and others; silver. Shaft, tunnel, 1,000 tons. refractory, steam, 20 stamps.
Bash Ry. Malheur 776.	Simpson & Thornton. Mary, Malheur, gold, lead, silver. Open, shaft, free, hand.
Bay Hot Ry. Ketchum 776-775 miles.	Beardsley Mining Co. O. J. Salesbury, mgt. Beardsley, lead, silver. Tunnel, 2,000 tons. refractory. 10 stamps.
"	E. Christensen. Cap. \$10,000. Silver Brook, gold. Tunnel, shaft, 100 tons. refractory, hand.
"	J. W. Clarke, Clayton, Idaho. Macon, silver, lead, copper. Shaft, tunnel, 200 tons. refractory. horse.
"	Elita Vee Mining Co. Geo. Shum, mgt. Cap. stk. \$15,000. Elita Vee, gold, silver. Tunnel, shaft. horse. J. D. Voss, supt.
"	Ramsbotham Mining & Smelting Co. O. J. Salesbury, mgt. Ramsbotham, silver, lead, copper. Tunnels, 5,000 tons. refractory. G. Balhage, supt.
Bellevue Ry. 776.	Modoc Creek Mining Co., Salt Lake City, Utah, 168 Main st. N. Trevelyan, pres.; C. T. Stevenson, secy.; W. H. Remington, treas. J. C. Cunningham, mgt. and supt. Cap. stk. \$100,000. Modoc Creek, Niagara, lead, silver and gold. Shaft, tunnel. refractory, hand.
"	Paiche Tunnel Mining Co. D. G. Tull, pres.; T. M. Home, secy.; John Donham, v. pres.; Jas. A. Donham, mgt. Cap. stk. \$100,000. Paiche Tunnel, silver. Tunnel, refractory.
Bonanza City, Ry. Ketchum 776.	Bonar & Dodge. Ruby, gold and silver. Tunnel, 200 tons. free, hand.
"	Montana Mining Co., Main st., Jas. Hooper, pres. and mgt.; Alvin Franklin, secy.; A. & J. P. Collier, treas. Cap. \$5,000. Montana, tunnels and shaft. free, horse. Jas. Hooper, supt.
"	Albert Neubert, Eschmark and others, gold. Tunnels, 1,000 tons. free, hand.
Bonner's Ferry, Kootenai P. O. Ferry Ry. 236.	Boulder Creek Mining Co., Ben Morrow, pres.; T. J. Lane, secy.; H. H. Markley, treas.; Geo. E. Hart, mgt. Cap. stk. \$300,000. Bonnetty, gold, silver and lead. Tunnel, free, water, developing.
"	Columbia Mining Co., Alma, Wis. G. M. Rembrandt, pres.; T. P. Hunter, secy. and treas. Cap. stk. \$100,000. Senking and others, silver, copper and gold. Tunnel. R. W. Hunter, supt.
Burke Ry. 529, 776.	Cent. d'Alene Silver & Lead Mining Co., Butte City, Mont. Joseph C. Clark, pres.; C. L. Fleming, secy.; Joseph A. Long, treas.; Patrick Clark, mgt. Cap. stk. \$75,000. Fortman, Sheridan, silver and lead. Shaft, 10,000 tons. concentrator. Seneca, lead, v. supt.
"	Cent. d'Alene Mining & Concentrating Co., Spokane, Wash. James B. Grant, pres.; John A. Finch, secy. and treas.; A. B. Campbell, supt. and mgt. Cap. stk. \$250,000. Union, gold, silver, lead. Tunnel. 45,000 tons. water, refractory. concentrator. Geo. Emery, supt.
"	Hecla Mining Co., Wallace, Idaho. Patrick Clark, pres.; John A. Finch, secy. and treas.; A. L. Gross, mgt. Cap. stk. \$300,000. Hecla, silver and lead. Tunnel, refractory, water. A. B. Campbell, supt.
"	Hogen Mining Co. S. S. Galden, pres.; Cap. stk. \$300,000. Tiger, gold. Shaft, tunnel, 400 tons. refractory, water. F. R. Culbertson, mgt. and supt.
Challis Ry. Ketchum 776.	J. D. Voss. Cap. \$10,000. Naama, gold and silver. Slope, 200 tons. free, horse.
Clark's Fork Ry. 529.	Missoula & East Chance Mining Co., Spokane, Wash. J. F. Vinton, pres. and mgt.; J. R. Rossmason, secy.; F. E. Peterson, treas. Cap. stk. \$250,000. Missoula, East Chance, silver and lead. Tunnel, shaft, water.
Clayton Ry. Ketchum 776-775 miles.	B. T. Basson, Dickey, Idaho. Cap. \$5,000. Blacktail and others, gold, silver, lead. Tunnel, shafts, open refractory, hand.
"	Blue Bird & January Mining Co. L. C. Hendrick, secy.; John M. Babson, mgt. and supt. Blue Bird, January, silver, lead. Shafts, tunnels. refractory, hand.
"	Cumaba Mining Co., Highland, Ill. Cap. stk. \$200,000. Cumaba, gold, silver, lead. Shafts, tunnels. refractory, free, steam, 10 stamps. W. D. Dugdale, supt.
"	Clark, Thompson & Co., Sheep Mountain, Idaho. Geo. C. Harris, gold, silver. Shaft, tunnels. 40 tons. refractory. horse, hand. J. W. Clark, supt.
"	Clayton Moreville Co. Gay C. Barlow, pres.; W. Cox, secy. and treas.; A. J. Crook, mgt. Cap. stk. \$100,000. Red Bird, gold, silver. Tunnel, shaft, 600 tons. free, water. 100 stamps. H. M. Moreville, supt.

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.		
TOWNS	AND	COUNTY			
Clayton,		Custer	Clayton Mining & Smelting Co.	Guy C. Bartow, pres.; A. J. Crook, mgt.	Cap. stk. \$250,000. Silver, lead, Water.
"	(Continued.)	"	"	"	"
"	"	"	Great Expectation Gold Co., St. Louis, Mo., 506 N. Main st.	Jos. T. Dugdale, pres.	Cap. stk. \$30,000. Robinson Bar. Gold, placer, hydraulic.
"	"	"	Daniel Sheehan.	Blue Bird, silver, lead.	Tunnel, shaft, 64 tons; refractory, hand.
"	"	"	Robinson Bar Mining Co., East St. Louis, Ill., 119 N. Third st.	Jos. T. Dugdale, pres.; John H. Wolterling, secy.; Lucas Edel, treas.	Cap. stk. \$1,800,000. Robinson Bar, gold. Placer; water.
"	"	"	Wiggins & Co.	Russell, silver, lead.	Tunnel, shaft, refractory, hand.
Clear Water,		Shoshone	Chas. Larkam, Superior, Mont.	Larkam, gold.	Placer, 1,500 tons; water.
(P. O. Superior, Mont.)					
Ry. Iron Mountain,					
Mont., 529.					
Custer		Custer	Bollette & Mullen.	Visham, gold, silver.	Shaft, tunnel, 500 tons; free; steam, hand. John Mullen, supt.
Ry. Ketchum 529 (100 miles).					
"	"	"	Dickens-Custer Mines, Ltd., London, Eng.	Col. Masters, pres.; G. B. Bentham, secy.; Alvah Henry Oxford, mgt. and supt.	Dickens, gold, silver. Tunnels, 3,000 tons; refractory; steam, 30 stamps.
"	"	"	David Dorsey & Edwards.	Black, gold, silver.	Tunnels, slopes, 127 tons; free; hand.
"	"	"	Lucky Boy Gold Mining Co., Salt Lake City, Utah, 168 Main st.	N. Treweek, pres. and mgt.; C. T. Stevenson, secy.; J. Barnett, treas.	Cap. stk. \$1,000,000. Lucky Boy, Anna, gold, silver. Tunnels, refractory; hand.
"	"	"	James A. McEadden.	Yankee Fork and Fraction, gold and silver.	Tunnels and shafts, 1,200 tons; free.
"	"	"	Tonto Mining Co.	Tonto, gold, silver.	Shaft; free; hand.
De Lamar		Owyhee	Burke & Taylor, Spokane, Wash., 1225 Washington st.	Garfield, gold, silver.	Shaft, tunnel; free. J. N. Deake, supt.
Ry. Nampa 776 (35 miles).					
"	"	"	De Lamar Mining & Milling Co., T. E. Bradnober, pres.; J. W. Plummer, mgt. and supt.	De Lamar, gold, silver.	Tunnels, 18,000 tons; free; steam, 30 stamps.
"	"	"	Jones & Ready.	Alta, gold, silver.	Tunnel; free; steam, 20 stamps. T. W. Jones, supt.
"	"	"	Ira McGary.	Cap. \$100,000. Silver Vault, gold, silver.	Tunnel, 6,000 tons; refractory.
"	"	"	Stoddard Group Mining Co., Gold Hill, Nev.	H. M. Gorham, secy. and treas.; John D. Ludwig, mgt. and supt.	Stoddard, Deadwood, Midas, gold, silver. Tunnel, shaft; free; hand.
Douglas,		Logan	John & James Douglas and others.	Camos No. 2, gold.	Shaft, tunnel, 8,000 tons; free; steam, 20 stamps. James Douglas, supt.
Ry. Hailey 776.					
Elk City		Idaho	Elk Mining Co., Aberdeen, Wash.	H. Talherston, pres.; J. G. Weatherway, secy.; R. H. Evans, treas.; W. B. Hill, v.-pres.	Cap. stk. \$500,000. Gold. Placer.
Ry. Weiser 776.					
"	"	"	International Mining & Developing Co., Portland, Ore., P. O. Box 758.	C. E. Millley, pres.; M. J. Reid, secy.; Jacob Haas, treas.	Cap. stk. \$1,000,000. Favorite and 8 others; gold, silver. Free, steam. E. C. Spidden, supt.
"	"	"	Mineral Hill Mining Co., Portland, Ore.	A. F. Gartner, pres.; Wm. Church, Jr., secy. and treas.; D. N. Summers, mgt. and supt.	Cap. stk. \$1,000,000. Mineral Hill and 3 others, gold. Tunnel, refractory; water.
"	"	"	Rapid River Mining Co., Spokane, Wash., Rooms 227 and 228 Hyde Block.	B. C. Van Houton, pres.; A. C. Edwards, secy.; Mrs. M. J. McCoy, treas.	Cap. stk. \$1,000,000. Alliance, Victor, Union, gold. Tunnel, free; water.
Fort Lemhi		Lemhi	Lone Star Co.	Lone Star, gold.	Tunnel, free; steam, water.
Ry. Red Rock, 776.					
Fry		Kootenai	Iowa Mining Co., Cedar Falls, Iowa.	H. H. Markeley, pres.; Alfred Grundy, secy.; B. H. Persol, treas.; L. J. McMillin, mgt. and supt.	Cap. stk. \$500,000. McGinty, gold, silver, lead. Tunnel, free; hand (developing).
Ry. Leonor 263					
Gen.		Shoshone	Black Bear Mining Co., W. S. Sheell, mgt.	Cap. \$175,000. Black Bear, Yankee Doodle, Cape Horn and Idaho Refractory Mines, silver and lead.	Tunnel, 3,000 tons; refractory, water.
Ry. Wallace 529, 776.					
"	"	"	Helena & Frisco Mining Co., Helena, Mont.	Anton M. Holtzer, pres.; A. J. Schgamm, secy. and treas.; A. M. Eslet, mgt.	Cap. stk. \$2,500,000. Badger, silver, lead. Tunnel, shaft, 53,000 tons; refractory, steam, water, concentration. John H. Howard, supt.
"	"	"	Milwaukee Mining Co., Wallace, Idaho, Bank st.	B. A. Kippe, pres.; John A. Finch, secy. and treas.; A. E. Campbell, mgt.	Cap. stk. \$800,000. Gen of the Mountains, silver, lead. Tunnel, 5,500 tons; refractory, steam, water. Geo. Emery, supt.
Grangeville		Idaho	International Mining Co., Spokane, Wash., Room 211 Green Block.	Geo. B. Ellis, pres.; Edward	Cap. stk. \$800,000. Horse Shoe Bend, gold. Placer.
Boat Ry. Lewiston 776 (75 miles).					
Hailey		Alturas	Red Elephant Mining Co., W. H. Brown, pres.; J. M. Lindsey, secy.; J. R. McDonald, treas.; G. A. Bry-	ant, mgt.	Cap. stk. \$500,000. Silver and lead. Tunnel, shaft, 30,000 tons; refractory, steam. C. C. Orr, supt.
Ry. 776.					
Helena		Washington	South Peaceock Mining Co., Boston, Mass., 88 State st.	Wm. L. Platt, secy. and treas.; Boston, C. F. Drake, mgt. and supt.; Weiser, Idaho.	Copper Key, gold, silver, copper. Shaft, horse, hand.
P. O. Dale Ry. Weiser 776 (95 miles).					
Hope		Kootenai	Stewart, Childs & Co.	Duckerson, silver.	Tunnel, refractory.
Ry. 729.					
Idaho City		Boise	Bella Mining Co., Boise City, Idaho.	Jos. D. Wilson, pres. and secy.; Thos. J. Wilson, treas.	Cap. \$150,000. Bella, Edna, gold and silver. Shaft and tunnel, refractory, water. John C. Henry, supt.
Ry. Boise City 776.					

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	COUNTY		
Idaho City.	Boise	Boise County Mining Co., Ltd., H. Zipp, pres't., J. G. Waits, sec'y., A. Cunningham, treas., A. B. Motrell, mgt., Cap. stk. \$50,000. Gold. Shaft, placer, tree, steam.	
Idaho City.	Boise	Boise County Mining Co., Ltd., H. Zipp, pres't., J. G. Waits, sec'y., A. Cunningham, treas., A. B. Motrell, mgt., Cap. stk. \$50,000. Gold. Shaft, placer, tree, steam.	
Junction	Lemhi	Joseph H. Fauman, Arkansas Traveler, silver, lead. Shaft, tunnel, 35 tons, refractory, hand.	
"	"	Lee Bros. & Clark, Grand Exchange, silver, lead. Shaft, refractory, hand.	
"	"	A. C. Waugh, American Star, silver, lead. Shaft, refractory.	
Kellogg,	Shoshone	Old Abe & Tompkins Mining & Milling Co., Wardner, Idaho, N. S. Kellogg, pres't., Robert J. Horn, sec'y. and treas., Ed. T. N. Muney, mgt. and supt., Cap. stk. \$500,000. Old Abe, Tompkins, gold, copper, lead. Shaft, tunnel, 1,200 tons, hand.	
"	"	Shelton Bros., Old Abe, Tompkins and others, silver, gold, lead. Tunnel, shaft, refractory, hand.	
Kendrick,	Latah	Boulder Creek Mining Co., Zenith and others, gold, silver. Tunnel, water. W. C. McNitt, supt.	
"	"	A. F. McKenna, Important, gold, silver. Tunnel, water.	
"	"	S. A. Moon, Sonoma, gold and silver. Tunnel, water.	
Ketchum,	Alturas	Baltimore & Victoria Mining Co., Salt Lake City, Utah, P. O. Box 622, Thomas Marshall, pres't., J. McGinnis, sec'y. and mgt., J. E. Jones, treas., Cap. stk. \$750,000. Baltimore Group, gold, silver and lead. Tunnel, 1,000 tons, tree, refractory. Nichola, Healy, supt.	
"	"	Boulder Mining & Milling Co., Chicago, Ill., Cap. stk. \$1,000,000. Silver, lead, 200 tons, refractory, H. J. Minklock, supt.	
"	"	James T. Cochran, Argonaut, Dixon, silver and lead. Tunnel, 120 tons, refractory.	
"	"	J. V. Easley, Third Party, silver, lead and antimony. Refractory.	
"	"	Elkhorn Mining Co., Elkhorn, gold, silver and lead. Tunnel, shaft, 1,000 tons, refractory. J. T. Levy, mgt. and supt.	
"	"	Independence Mining Co., R. R. Warren, mgt., Independence, silver and lead. Tunnel, refractory, hand, Charles Swenson, supt., developing.	
"	"	Opden Mining & Milling Co., Great Falls, Mont., east of East National Bank, J. T. Collins, pres't., R. W. Cooley, sec'y. and treas., H. J. Minklock, mgt. and supt., Cap. stk. \$1,000,000. Opden and other mine, 2,000, silver, lead. Tunnel, shaft, 800 tons, refractory, steam.	
Kootenai	Kootenai	Atlantic Mining & Milling Co., Henry A. Stude, pres't., F. M. Gallette, sec'y., C. O. Motrell, treas., J. D. Faust, mgt. and supt., Cap. stk. \$1,000,000. Atlantic, Garfield, gold, silver, lead. Shaft, refractory, hand, developing.	
Maday City	Oneida	Pioneer Mining, Melting & Smelting Co., D. E. Evans, pres't., C. F. Stone, sec'y., Jas. J. Jones, treas., R. S. Willett, mgt. and supt., Cap. stk. \$1,000,000. Pioneer, gold, silver, lead. Tunnel, tree, hand.	
Martin	Alturas	Vero Mining & Milling Co., Chicago, Ill., 15 Dearborn st., Room 70, J. H. Deegan, pres't., Charles W. Briggs, sec'y. and treas., John W. Cowden, mgt. and supt., Cap. stk. \$1,000,000. Idaho, silver. Shaft, refractory, steam.	
Mineral	Washington	Mineral Mutual Smelting Co., C. C. Wing, pres't. and mgt., M. Ditty, sec'y., E. C. Summit, treas., Cap. stk. \$1,000. Egan, Silver Belle, gold, silver. Tunnel, 100 tons, refractory. N. E. Spauld, supt.	
Mullan	Shoshone	Gold Hunter Mining & Smelting Co., St. Paul, Minn., 26 R. 6th st., Dennis Ryan, pres't., R. E. Galshua, sec'y., F. F. Kavanaugh, treas., R. A. Cox, mgt., Cap. stk. \$250,000. Gold Hunter, silver, lead. Tunnel, 300 tons, tree, water, concentrator.	
"	"	Born & Ingalls, Lucky Friday, silver and lead. Refractory, hand, developing.	
"	"	Morning Mining Co., Milwaukee, Wis., Tobyn Ryman, pres't., R. E. Long, mgt. sec'y., Frank J. Kipp, treas., D. E. Humbly, mgt. and supt., Cap. stk. \$1,000,000. Morning, Evening, Silver King, silver, lead. Tunnel, 10,000 tons, refractory, steam, water, concentrator.	
"	"	Butte Creek Mining Co., Fred Dutton, treas't., Butte Creek, gold. Placer, hydraulic. A. L. Simmons, supt.	
"	"	John Connerly, Lessee, Louisville, Ky., Golden Chest, gold. Tunnel, 1,000 tons, tree, steam, 10 stamps.	
"	"	Mother Lode Mining Co., Mother Lode, gold. Tunnel, tree, water, 5 stamps. D. H. Wiley, mgt. and supt.	
"	"	Frank Reed, Buckeye Bay, gold. Tunnel, 500 tons, refractory, steam, 5 stamps.	
Osgood	Shoshone	Conn. d. Vene, Nellie Mining Co., St. Paul, Minn., Brown & German American Bank Bldg., W. W. Braden, pres't., A. P. Rathbun, sec'y., H. Von der Weyer, treas., Cap. stk. \$200,000. Conn. d. Vene, Nellie, silver, 3,000 tons, tree, hand, water. T. N. Muney, mgt. and supt.	
"	"	John H. Dwyer & Son, Argentina, silver, iron. Shaft, tunnel, 4,000 tons, refractory, steam, concentrators.	
"	"	Emma Mining Co., St. Paul, Minn., 75 German American Bank Bldg., Chas. T. DeHeth, pres't., Wm. Tomlin, sec'y. and treas., Cap. stk. \$100,000. Emma, silver, 1,000 tons, tree, water. T. N. Muney, supt.	
"	"	George & Braden, Koll Block, lead, silver. Tunnel, 100 tons, tree. L. F. Good, supt.	
"	"	Harrington & Cook, Cap. \$7,000. Capital, silver, lead. Tree, developing.	
"	"	Mineral Bond Mining & Tunnel Co., Stillwater, Minn., Humboldt Exchange Bldg., San Jose, M. C. pres't., A. L. Lundholm, sec'y., David Fox, treas., Cap. stk. \$50,000. Mineral Bond, silver, tree, hand. T. N. Muney, supt.	
"	"	Silver Chord Mining Co., Chicago, Ill., Market and Jackson sts., Joseph Behold, pres't., Samuel J. Kline, sec'y., Cap. stk. \$1,000,000. Silver Chord, silver. Tunnel, refractory, Joseph Kline, supt.	
"	"	Spokane & Court d'Alene Co., Spokane, Wash., Riverside av., L. A. Cook, pres't., Gus Seibert, sec'y., T. N. Muney, mgt. and supt., Cap. stk. \$500,000. War Eagle, Massett and others, silver, copper, lead. Tunnel, refractory.	

GOLD AND SILVER—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNEAL, OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Pine	Elmore	W. C. Pickering & Co.	Franklin, gold, silver. Tunnel, shaft, free, refractory; water; 10 stamps. W. C. Pickering, supt.	
Placerville	Boise	California Hill Co.	Austin Dougherty, mgr. Cap. stk. \$5,000. California Hill, gold. Placer, deep, hydraulic.	
"	"	Edwin Smith.	Mountain Queen, gold, silver. Tunnel; free.	
"	"	Geo. Tera and others.	Belshazzer, Centennial, gold, silver. Tunnel, shaft, free; water, mill.	
Quartzburg	Boise	Black Bear Mining Co.	Anton Silver, mgr. Black Bear, gold. Shaft, free, hand.	
"	"	Gold Hill Mining Co.	Gold Hill, gold. Shaft, free, steam; 25 stamps.	
"	"	W. M. Nesbit & Co.	Cap. \$10,000. Gold. Shaft; refractory; steam. H. F. Gean, supt.	
Redwing	Alturas	C. J. Johnston.	Solace, silver, gold. Shaft, refractory, steam.	
Rocky Bar	Elmore	Elmore Gold, Ltd., London, Eng., The Avenue, 11 Bloomfield st., E. C. J. R. Armitage, prest.; C. Harrison Smith, secy. Cap. stk. \$1,500,000. Elmore, gold, silver. Shaft, free; steam; 50 stamps. Geo. A. McCormick, supt.		
"	"	Jim Blaine Mining Co.	Alex. Cochran, prest.; Timothy Downey, secy.; J. B. Fitzgerald, treas.; John Boyle, mgr. and supt. Cap. \$100,000. Jim Blaine, John Boyle and 5 others, gold, silver. Tunnel, 8,000 tons; free, steam; 10 stamps.	
"	"	Martin & Golden.	John P. Martin, prest. and supt. Arthur Golden, secy. and mgr.; George D. Golden, treas. Cap. \$100,000. Golden Bar, gold, silver. Tunnel, 6,000 tons; free; water; 10 stamps.	
"	"	Ophir Mining Co.	Wheeler & Hopper, 26 Broadway, New York City. Ophir, gold. Shaft, free, steam; 20 stamps.	
"	"	Aishun Gold Co., Ltd., London, Eng.	Aishun, Idaho, gold. Tunnel, shaft; free, steam, 12 stamps. G. A. McCormick, supt.	
Salmon City	Lemhi	Lemhi Placer Gold Mining Co., Ltd., Denver, Colo., 43 Tabor Block, George J. Bond, prest.; L. H. Jackson, secy.; John G. Shields, treas. Cap. stk. \$5,000,000. Lemhi, gold. Placer. W. S. Patterson, mgr. and supt.		
"	"	Pratt Creek Mining Co.	Hope, Adeline, Canine, Sam Rice and Exchange, gold, silver and lead. Tunnels, refractory; water, mill.	
Sand Point	Kootenai	C. S. Smith, Bend d'Orville, Idaho. Cap. \$1,000,000. Blue Joe Group, silver and lead. Tunnels, 20,000 tons; refractory, hand.		
Saw Tooth	Alturas	Silver King Mining & Milling Co., Philadelphia, Pa., 23 S. Fourth st. Henry Lewis, prest.; W. S. Wylie, secy. Cap. stk. \$100,000. Silver King, silver, gold. Slope, 500 tons, refractory, steam, mill. Win Hyndman, mgr. and supt.		
Sea Foam	Custer	Mt. King Mining Co., Challis, Idaho. Chris. Morley, prest. and mgr.; R. N. Hull, secy. and treas. Cap. \$100,000. Mt. King Mine, silver and lead. Tunnels, 300 tons, refractory, steam. A. M. Wilson, supt.		
Sheep Mountain	Custer	Shambean & Bascom. Cap. \$100,000. Cowpuncher, silver, lead. Open pit, tunnel, refractory, hand.		
Shoup	Lemhi	Harris, Wood & Davis, Hamilton, Mont. Cap. \$50,000. Boulder Creek, gold. Placer (developing), free, water. A. E. Wood, supt.		
"	"	Lemhi Mining & Milling Co., Salmon City, Idaho. Richard H. Chapman, prest.; R. P. Charles, secy. and treas. Cap. stk. \$80,000. Bartington, gold. Tunnel, 10,000 tons; free, water; 15 stamps. J. M. Paritt, mgr. and supt.		
Silver City	Owyhee	P. C. Harford and others. Cap. \$100,000. Ralph Hoyt and 3 others, gold, silver. Tunnel, shaft, 10,000 tons; free, refractory, mill. M. F. Leebell, mgr. and supt.		
"	"	Idaho and Pittsburg Mining & Milling Co., Pittsburg, Pa., 95 Fifth av. John Irwin jr., prest.; Lloyd L. Little, secy.; James McKay, treas. Cap. stk. \$2,500,000. Black Jack, gold, silver. Tunnel, free, steam, 10 stamps. Frederic Brown, supt.		
"	"	Phillips & Sullivan. Cap. \$50,000. Phillips, Sullivan, Betts, gold, silver. Tunnel, 1,500 tons; free, steam, 5 stamps. Isaac Phillips, supt.		
"	"	The Poorman Mines, Ltd., London, Eng., Leadenhall Bldgs. J. H. Botherton, prest.; D. Owenstone, secy. and treas. Cap. stk. \$850,000. Poorman, Illinois central and 2 others, silver and gold. Shaft, tunnel, free; steam, mill. Philip J. Louergan, mgr. and supt.		
"	"	Trade Dollar Mining & Milling Co., Pittsburg, Pa., 603 Ferguson Block. W. H. Dewey, prest.; John M. Patterson, jr., prest.; Thomas E. McKang, secy. and treas. Cap. stk. \$2,500,000. Trade Dollar, silver and gold. Tunnel, 1,000 tons; free, steam, water, 10 stamps. E. H. Dewey, supt.		
Sunset Peak	Shoshone	Father Mining Co. Henry Lamb, prest.; H. Drought, secy. and treas.; John Carlson, mgr. Cap. stk. \$100,000. Father, silver and lead. Tunnel.		
Vanida	Alturas	New Vanida Mining Co., Winona, Minn. C. J. Johnson, prest.; C. A. Morey, secy.; H. J. O'Neill, treas.; C. J. Johnson, mgr. Mountain King and others, gold and silver. Tunnel, refractory, steam and hand, 20 stamps. C. J. Johnson, supt.		

GOLD AND SILVER—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OR 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN	COUNTY	
Wallace Ry. 529, 776.	Shoshone	Carbon Centre Lead & Silver Mining Co., Portland, Ore., 31 Stark st., Nathan Elliott, pres., and mgr., H. C. Johnson, secy., Geo. L. Story, treas., Cap. stk. \$1,000,000. Toughmint and Diamond Fraction, gold, silver, lead and copper. Tunnel, 75 tons, refractory, hand. Nathan Elliott, supt.
"	"	Cour d'Alene Mining & Development Co., W. H. Fiske, pres., N. Withner, secy., Theo. F. Jameson, treas., Frank J. Heller, mgr., Cap. stk. \$200,000. New Haven, silver, lead. Tunnel developing.
"	"	Granite Mining Co., Portland, Ore., V. B. Dehoshmatt, pres., E. Dehoshmatt, secy. and treas., G. B. McAnlay, mgr. and supt., Cap. stk. \$500,000. Granite, silver, lead. Tunnel, 1,000 tons; refractory.
"	"	Mammoth Mining Co., Mammoth, silver, lead. Tunnel, 1,000 tons; refractory, free. Richard Wilson, mgr. and supt.
"	"	New Chicago Mining Co., Geo. H. Heller, mgr., New Chicago, Cour d'Alene, silver and copper. Tunnel, free, refractory, water. John Cronin, supt.
"	"	Parrott Mining Co., Spokane, Wash., 26 Postoffice Block, Riversavoy, S. G. Allen, pres., R. H. Greely, secy. and mgr., Lee A. Azarov, treas., Cap. \$100,000. Parrott, silver, lead. Tunnel; refractory, gravity.
"	"	Silver Chord Mining Co., Chicago, Ill., cor. Market and Jackson sts., Joseph Richfeld, pres., Samuel Kline, secy. and treas., Cap. stk. \$1,000,000. Silver Spray and 4 others, silver. Tunnel, Joseph Kline, supt.
"	"	Standard Mining Co., A. B. Campbell, pres., F. S. Kinney, secy., John A. Finch, treas. and mgr., Cap. stk. \$200,000. Standard, Bunker, lead, silver. Tunnel, refractory, steam. George Emery, supt.
"	"	O. B. Wallace. Black Cloud, lead and silver. Shaft, tunnel, hand developing.
Wardner Ry. 776	Shoshone	Bunker Hill & Sullivan Mining & Concentrating Co., San Francisco, Cal., 124 Sansome st., John Hays Hammond, pres., E. L. Rudy, secy., Wm. H. Crockett, treas., A. M. Clement, mgr., Bunker Hill, Sullivan, silver, lead. Tunnel, 150,000 tons; refractory, steam, water, concentrator. Frank Jenkins, supt.
"	"	Eureka & Crown Point Mining Co., Tacoma, Wash., George Brown, trustee, Clarence Cunningham, mgr. and supt., Eureka, Crown Point, silver, lead. Shaft, steam.
"	"	Last Chance Mining Co., Spokane, Wash., First National Bank Bldg., F. R. Moore, pres., H. G. Macdonald, secy., Charles Sweeney, mgr., Last Chance, silver, lead. Tunnel, 10,000 tons; refractory, steam, water.
"	"	Old Abe & Tompkins Mining & Milling Co., Phil. O. Bourke, pres., Joe Rogers, A. pres., R. I. Horn, secy., M. J. Snellett, treas., Charles Snellett, mgr., Cap. stk. \$200,000. Old Abe, Tompkins, silver, copper. Tunnel, 5,000 tons; free hand.
"	"	Sierra Nevada Mining Co., Portland, Ore., A. B. Dehoshmatt, pres., E. Dehoshmatt, secy. and treas., G. B. McAnlay, mgr. and supt., Cap. stk. \$1,000,000. Sierra Nevada, silver, lead. Tunnel, 13,000 tons; refractory.
"	"	Silver King Mining Co., H. A. Jones, pres., George Gardner, secy., O. L. Shankland, treas., Wm. Metry, mgr., Cap. stk. \$100,000. Silver King, silver, lead. Shaft, tunnel, 12,000 tons; steam. W. L. Hales, supt.
"	"	Stenwindet Mining Co., Portland, Ore., A. B. Dehoshmatt, pres., J. H. Smith, secy., E. Dehoshmatt, treas., G. B. McAnlay, mgr., Cap. stk. \$500,000. Stenwindet, silver, lead. Tunnel, 3,000 tons.
"	"	G. H. Trumbull. Hope, gold and silver. Tunnel developing; refractory.
Warren Ry. Weiser 776, 139th	Idaho	H. D. Ederbrook. Breckmaker, Stubbs L. gold. Placer, free, hand, water.
"	"	Waterhouse & Jenney, Weiser, Idaho. Minnehaha, gold, silver. Shaft, tunnel, free, hand.
Weiser Ry. 776	Washington	L. M. Burton. Cap. \$90,000. Standard, Lockwood, gold, silver, copper. Shafts, tunnels.

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUALITY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OR 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN	COUNTY	
Bay Horse Ry. Kellogg 776, 175 th 18th	Custer	Rainshot Mining & Smelting Co., Post Box, Rainshot, iron, lead, copper. Tunnel, 2,000 tons.

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUALITY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OR 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIME KILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN	COUNTY	
Pend d'Oreille Ry. 529.	Kootenai	Cannon & Gray Limestone Co., Spokane, Wash., 300 Railroad av., A. M. Cannon, pres. and treas., A. R. Cullen, secy., L. B. Mettriam, mgr. and supt., Cap. stk. \$20,000. Pend d'Oreille, marble, limestone. Open pit, steam, 20,000 tons.

ILLINOIS

COAL BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Aledo Ry. 145.		McPerry	P. L. Bailey.	Lova's. Shaft, 3,500 tons; horse.
Alexis Ry. 147.		Warren	John Simeon (local).	Cap. \$5,000. Simeon. Shaft, 3,000 tons; hand.
"		"	William Cook & Son (local).	Cap. \$8,000. Empire. Shaft, 400 tons; horse.
Alpha Ry. 145.		Henry	John Bland (local).	Slope, 400 tons; horse.
Alsey Ry. 145.		Scott	Charles McGuire.	Cap. \$100. Woodall. Tunnel, 800 tons; hand.
Alton Junction Ry. Wann 145, 170.		Madison	Stoneware Pipe Co. A. F. Foster, pres., W. W. Stickney, secy. and mgr., John W. Koch, treas.	Cap. \$tk. \$100,000. Slope, 7,500 tons; horse. William Watts, supt.
Assumption Ry. 419.		Christian	Assumption Coal & Mining Co. David Lasharity, pres.; Silas A. Shaler, secy.; D. J. Watson, treas.; P. L. Myers, mgr. and supt.	Cap. \$tk. \$40,000. Assumption. Shaft, 50,000 tons; steam.
Astoria Ry. 145		Fulton	Astoria Coal & Mining Co. D. M. Hottrick, pres.; S. W. McCune, secy. and mgr., W. Scripps, treas.	Cap. \$tk. \$10,000. Astoria. Shaft, 30,000 tons; steam. Edward Fellows, supt.
"		"	Joseph Bottenberg.	Cap. \$500. Bottenberg's. Slope, 1,200 tons; horse.
Athen. Ry. 445.		Menard	Athena Mining Co., Peoria, Ill., Chamber of Commerce Bldg. H. W. Lynch, pres., Lee Kincaid, secy. and treas., Evermont Eddy, mgr. and supt.	Shaft, steam, compressed air.
"		"	Walrus Coal Co., Quincy, Ill., 400 Main st. Fred Wilms, pres. and mgr., W. Wilms, secy., S. W. Eldred, treas.	Cap. \$tk. \$6,000. Athens. Shaft, 75,000 tons; steam. T. P. Mowitt, supt.
Atkinson Ry. 142.		Henry	James Kay (local).	Cap. \$1,000. Kay's. Shaft, 20,000 tons; steam.
"		"	Mowbray & Lowes (local).	Atkinson. Slope, 2,500 tons; horse. John Mowbray, supt.
"		"	Elery Riley (local).	Cap. \$700. Atkinson. Shaft, 3,000 tons; steam.
Augusta, Ry. 145.		Hancock	Patrick Doyle (local).	Cap. \$100. Williams Creek. Slope, 250 tons; hand.
"		"	J. W. Marks (local).	Cap. \$300. Idlewise. Shaft, 1,400 tons; horse.
Avon Ry. 145.		Fulton	Thomas Caldwell (local).	Cap. \$200. Avon. Shaft, 1,211 tons; hand.
Barelay Ry. 419.		Sangamon	George N. Black, Springfield, Ill.	Cap. \$75,000. Barelay. Shaft, 120,000 tons; steam. George Strebel, supt.
Bartonsville Ry. 145, 427		Peoria	Collier Cooperative Coal Co. Joseph Van Norman, pres.; August Lacour, secy.; F. J. Collier, treas., mgr. and supt.	Cap. \$tk. \$10,000. Collier's. Slope, 35,000 tons; steam.
"		"	E. Wolland & Sons (local).	Cap. \$5,000. Wolland's. Tunnel, 7,000 tons; horse. E. S. Wolland, supt.
Bellefonte Ry. 102, 408, 709		St. Clair	F. J. Brueggemann, 727 Lebanon av.	Brueggemann. Shaft, 5,522 tons; steam.
"		"	Consolidated Coal Co., St. Louis, Mo., Fourth and Olive sts. Chas. Ridgley, pres., Geo. F. Cutts, secy. and treas., J. C. Simpson, mgr.	Cap. \$tk. \$5,000,000. Green Mount. Shaft, 75,000 tons; steam. Keyocht. Shaft, 75,000 tons; steam. Rose Hill. Shaft, 30,000 tons; steam. Schureman. Shaft, 100,000 tons; steam. Gartside No. 1. Shaft, 75,000 tons; steam. Joseph Emery, supt. Rickland. Shaft, 100,000 tons; steam. Chas. Rodenberg, supt.
"		"	Glendale Coal & Mining Co., St. Louis, Mo., 414 Market st. F. Brandenburg, pres., A. Brandenburg, secy. and treas., Fred Brandenburg, mgr.	Cap. \$tk. \$18,000. Glendale. Shaft, 100,000 tons; steam. H. Klingenzogen, supt.
"		"	Highland Coal Co., 712 E. St. Christ Nell, pres.; Herman Michaels, secy., Philip Wagner, treas., Henry Strothmann, mgr.	Cap. \$tk. \$3,000. Highland. Shaft, 30,000 tons; steam. Henry Strothmann, supt.
"		"	Humboldt Mining Co. Wendin Oexner, pres.; Chas. Lenz, secy. and supt., Henry Oexner, treas.	Cap. \$tk. \$300. Humboldt. Shaft, 18,750 tons; steam.
"		"	Klingenzogen Bros. (local), 403 N. Illinois st.	Cap. \$1,000. Abend No. 1. Shaft, 3,000 tons; horse. O. J. Klingenzogen, supt.
"		"	J. Krantz & Frupp Co.	Cap. \$3,000. Branch. Shaft, 3,000 tons; horse.
"		"	Maule Coal Co., 415 Franklin st. John Maule, pres. and treas., Frank Maule, secy., Robert Maule, mgr. and supt.	Cap. \$tk. \$20,000. National, Main Guy No. 2. Slope, 68,000 tons; steam.
"		"	Louis Michaels, 296 N. Race st. Pittsburg.	Shaft, 12,000 tons; steam.
"		"	Renecke Coal Co., Madisonville, Ky. Conrad Renecke, pres.; Lukeman Bailey, secy., treas. and mgr.	Cap. \$tk. \$100,000. Renecke. Shaft, 750,000 tons; steam. John Brann, supt.
"		"	Walnut Valley Coal Co., St. Louis, Mo., 1718 Clark av. Daniel Marsh, pres.; S. Marsh, secy.	Walnut Valley. Shaft, 67,740 tons; steam. A. E. Powell, supt.
"		"	West End Coal Co. Samuel Swann, pres.; William Jacques, secy., Edward H. Pantton, treas., James Bailey, mgr. and supt.	Cap. \$tk. \$10,000. West End. Shaft, 20,000 tons; steam.
"		"	Yock Coal & Mining Co., 100 West Main st. William Hambleton, pres.; Edward Westwood, secy., Peter Schonebeck, treas.; Isaac Hewitt, mgr. and supt.	Cap. \$tk. \$15,000. Oak Hill. Shaft, 12,856 tons; steam.
Edinboro Ry. 107		Madison	Wm. Owen.	Cap. \$700. Banner. Shaft, 500 tons; horse.

COAL—BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL-BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Bellevue, Ry. 769.		Morgan	Henry Bosse (local),	Cap. \$500. Thompson, Shaft, 500 tons, horse.
Berkner, Ry. 408.		St. Clair	Avery & Randle, Avery,	Shaft, 240 tons, steam, J. Randle, supt.
Bloomington, Ry. 145, 156, 399, 504.	McLean	McLean County Coal Co., 120 N. Main st.,	A. E. Stevenson, pres.; L. M. Graham, secy., treas. and m.	Cap. \$1k. 800,000. Bloomington, Shaft, 125,000 tons, hand, breaker, Thomas Radford, supt.
Blount, Ry. Danville 121, 196, 784.	Vermillion	Wm. Jay Moore, 141 Walnut st.,	Cap. \$20,000. Inwood,	Shaft, 3,000 tons, horse, James Bailey, supt.
Braceville, Ry. 115.	Grundy	Braceville Coal Co.,	Roswell Muller, pres.; Richard Ramsay, mgt. and supt.,	No. 2. Shaft, 29,000 tons, steam.
Bradford, Ry. 135.		Stark	W. J. Engelston,	Cap. \$1,000. Black Diamond, Shaft, 90 tons, horse.
Bradwood, Ry. 115, 215.		Will	Chicago, Wilmington & Vermillion Coal Co., Chicago, Ill., The Temple, Francis Bartlett, pres.; A. L. Sweet, secy. and mgt.;	Thos. A. Lemmon, treas.; N. O. & P. Shaft, 2,000 tons, steam, A. H. Zedler, supt.
"	"	"	Cooperative Coal Co., J. G. Kelly, pres., mgt. and supt., J. O'Connor, secy. and treas.,	Cap. \$1k. \$5,000 Cooperative, Shaft, 1,000 tons, horse.
Breeze, Ry. 748.		Clinton	Breeze Future Coal & Mining Co., Theo. Knutson, pres.; Fritz Koch, secy. and treas.;	H. H. Hume, mgt. and supt., Cap. \$1k. \$1,000. Breeze East, Shaft, 7,000 tons, steam.
"	"	"	Consolidated Coal Co., St. Louis, Mo., Fourth and Ohio sts.,	Charles Ridgeley, pres.; Geo. F. Cutts, secy. and treas.; J. C. Simpson, mgt., Cap. \$1k. \$20,000. Breeze, Shaft, 10,000 tons, steam, Wm. Haddock, supt.
Briar Bluff, Ry. 145.		Henry	Briar Bluff Mining & Stock Co., A. J. Bethen, pres. and treas.;	A. R. Stoddard, secy. and supt., Cap. \$1k. \$100,000. Briar Bluff, Slope, horse.
Brumfield, Ry. 155.		Franklin	Philip F. Bully (local),	Hayward's, Shaft, 1,200 tons, horse.
Bruce, Ry. 784.		Monroe	Lamborn & Bliss (local),	Bliss, Slope, 2,000 tons, horse.
"	"	"	S. E. McLeary,	Cap. \$15,000. McLeary, Shaft and slope, 3,000 tons, horse.
"	"	"	Scott Bros.,	Cap. \$1,000. Shaft, 1,000 tons, steam.
Bryant, Ry. 145.		Fulton	Whigbreast Fuel Co., Chicago, Ill., 240 Rockery Bldg., J. C. Osgood, pres.;	C. F. Phelps, secy.; C. W. Jenkins, supt., Geo. F. Phelps, mgt., Cap. \$1k. \$120,000. Mine 1, Shaft, 10,000 tons, steam, A. Jenkins, supt.
Bunker Hill, Ry. 159.		Massac	Wm. Neff & Co. (local),	Wm. Neff, mgt., Shaft, 4,200 tons, steam.
Cable, Ry. 112.		Metcalfe	Coal Valley Mining Co., Rock Island, Ill., E. R. Cable, pres.;	H. E. Snoddy, secy., treas. and mgt., Cap. \$1k. \$20,000. Cable, Shaft, slope, 30,000 tons, steam, Robert E. Fox, supt.
"	"	"	Mrs. C. B. Hill, Box 47 (local),	Hill, Slope, steam, J. B. Ellis, supt.
"	"	"	Chas. Peterson,	Cap. \$20,000. Peterson's, Shaft, 3,000 tons, steam.
Cambridge, Ry. 635.		Henry	Watson Bros.,	Cap. \$1k. \$1,000. mty. cap. \$1,500. No. 2. Shaft, 1,500 tons, steam, Chas. Watson, supt.
Campbell Hill, Ry. 163.		Jackson	Daniel Dawson,	Dawson's, Slope, 300 tons, hand.
Canton, Ry. 135, 762.		Fulton	Frank Atward (local),	Cap. \$1,500. Atward's, Shaft, 240 tons, steam, Geo. Tompkins, supt.
"	"	"	David Auld,	Cap. \$150. Slope, 150 tons.
"	"	"	Bennett & Lolly (lessees),	Churchill, Shaft, 25 tons, horse, Geo. Lolly, supt.
"	"	"	Canton Coal Co., 116 Chestnut st.,	J. B. Allen, pres., treas. and mgt.; J. N. Ode, secy., Cap. \$1k. \$1,500. West Canton, Shaft, 1,200 tons, steam, Timothy Knight, supt.
"	"	"	A. W. Heald & Son,	Cap. \$20,000. Canton Old Shaft, Shaft, 10,000 tons, steam, Thomas Shannon, supt.
"	"	"	L. L. Jones (local),	Black Jack, Slope, 500 tons, horse.
"	"	"	Will Whitham, 285 Fulton pl.,	Cap. \$100. Blackheart, Slope, horse.
Cantrill, Ry. 335.		Sananton	Cantrill cooperative Coal Co., John Cantrill, pres.;	Michael Menighen, secy.; John Barron, treas.; J. D. Mehl, mgt., Cap. \$1k. \$25,000. Shaft, 2,000 tons, steam, John McLeary, supt.
Carbondale, Ry. 289, 399, 709.		Jackson	R. J. Mason (local),	Slope, hand.
"	"	"	Charles A. Ray (local),	Carbon Hill, Tunnel, 1,150 tons, horse and hand.
Carbon Hill, Ry. 26, 145.		Grundy	Star Coal Co., Sycamore, Ill., W. H. Holcomb, pres. and mgt.;	A. B. Rithum, secy.; F. W. Perry, treas., Cap. \$1k. \$100,000. Carbon Hill, Nos. 1 and 2. Shafts, 2,400 tons, steam, John D. Keith, supt.
Carterville, Ry. 599.		Williamson	St. Louis & Big Muddy Coal Co., T. C. Davies, pres.;	Chas. M. Beppuhn, secy.; J. E. McGuffee, treas.; Sam. J. Brush, mgt., Cap. \$1k. \$20,000. Davies, Shaft, 10,000 tons, steam, Peter J. Kelly, supt.
"	"	"	Young & Bernardin (local),	Cap. \$200. Young's, Slope, 4,000 tons, horse.
Cattell, Ry. 784.		Vermillion	Barry Barr's,	Cap. \$2,000. Hall's, Shaft, 4,000 tons, horse.
"	"	"	A. H. Jones, Cattell,	Shaft, 2,000 tons, horse.
"	"	"	John C. Thomas (local),	Cap. \$775. Slope, 3,000 tons.

COAL BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT	
TOWNS	COUNTY	COUNTY		
Centerville	Madison	Centerville	Centralia Mining & Manufacturing Co., S. M. Warner, pres., H. M. Warner, secy., Ferdinand Kohl, treas., Peter Forsyth, mgr. and supt., Cap. stk. \$25,000. Shaft, 125,000 tons; steam.	
Chandlerville	Cass	William Shore (local). Open pit, horse.		
Chatham	Sangamon	Girard Coal Co., Girard, Ill., A. J. Armstrong, pres., A. K. Young, secy. and treas.; B. G. Smith, mgr. Chatham. Open pit, 15,000 tons; steam.		
"	"	Lick Creek Coal Co., C. C. Armstrong, pres., Thos. Kinaker, secy., A. K. Young, treas. Cap. stk. \$10,000. Chatham. Shaft, 10,000 tons; steam.		
Chenoi	McLean	Davies Coal Co., E. M. Pike, pres., Chas. Nickel, secy., mgr. and supt., R. G. Jordan, treas. Cap. stk. \$15,000. Chenoi. Shaft, 15,000 tons; steam.		
Clarke City	Kankakee	Gardner-Wilmington Coal Co., J. C. Lutz, pres., treas. and mgr.; J. F. Covey, secy. and supt. Cap. stk. \$200,000. Clarke City. Shaft, 93,000 tons; steam.		
Clyde	Macoupin	Consolidated Coal Co., St. Louis, Mo., Fourth and Olive sts., Charles Ridgely, pres.; Geo. T. Cutts, secy. and treas.; J. C. Simpson, mgr. Cap. stk. \$5,000,000. Clyde. Shaft, 125,000 tons; steam. John Rollo, supt.		
Coal City	Grundy	Big Four Wilmington Coal Co., Chicago, Ill., 118 Jackson st., O. D. Berchecker, pres., H. N. Taylor, secy. and mgr. Cap. stk. \$100,000. Big Four. Shaft, 50,000 tons; steam. Wm. Harkes, supt.		
Coal Valley	Rock Island	Banner Coal Co., Rock Island, Ill., Moline av., J. H. Wilson, pres. and supt., J. Pryce, mgr. Banner. Shaft, 50,000 tons; horse.		
"	"	Bardsley & Lee (local). Unki Dori. Slope, 630 tons; hand. Thomas Lees, supt.		
Colchester	McDonough	B. Egerton. Cap. \$15,000. Shaft, 13,000 tons; steam. W. E. Stanton, supt.		
"	"	J. Heppenstall (local). Box 246. Cap. \$5,000. Heppenstall. Slope, 1,500 tons; horse.		
"	"	Ed Hubbard. Cap. \$1,200. Tunnel, 500 tons; hand.		
"	"	Michael Humes. Tunnel, 1,000 tons; hand.		
"	"	Wm. T. Jefferson (local). Cap. \$200. Tunnel and slope, 800 tons; hand.		
"	"	Thomas Kipling (local). Cap. \$2,000. Kipling. Slope, 2,000 tons; hand.		
"	"	J. Myers. Cap. \$150. Slope, 1,200 tons; hand.		
"	"	Quincy Coal Co., Quincy, Ill., H. S. Osborn, pres.; H. C. Osborn, secy. and treas.; C. C. Osborn, mgr. Cap. stk. \$2,500. Nos. 33 and 34. Shafts, 30,000 tons; steam. Thos. Terrill, supt.		
"	"	William Robinson & Son (local). Cap. \$800. Shaft, 20 tons; horse.		
"	"	L. H. Vest. Vest's. Shaft, 2,000 tons; horse.		
"	"	W. D. Williams (local). Williams. Tunnel, 400 tons; hand.		
Colfax	McLean	Colfax Coal & Mining Co., C. G. Ritchie, pres. and mgr., D. F. Douglass, secy., M. L. Douglass, treas. Cap. stk. \$10,000. Colfax. Shaft, 25,000 tons; steam. John Alexander, supt.		
Collinsville	Madison	Consolidated Coal Co., St. Louis, Mo., Fourth and Olive sts., Chas. Ridgely, pres.; Geo. T. Cutts, secy. and treas.; J. C. Simpson, mgr. Cap. stk. \$5,000,000. Abbey No. 3. Shaft, 185,000 tons; steam. Wm. Fletcher, supt. Bentz Bluff. Shaft, 18,000 tons; steam. Wm. Fletcher, supt.		
"	"	Consolidated Coal Co., St. Louis, Mo., Fourth and Olive sts., Chas. Ridgely, pres.; Geo. T. Cutts, secy. and treas.; J. C. Simpson, mgr. Cap. stk. \$5,000,000. Abbey No. 4. Shaft, 150,000 tons; steam. Wm. Fletcher, supt.		
Copley	Knox	Owen Conley. Conley's. Slope, 800 tons; horse. A. M. Rosenberg, supt.		
"	P. O. and Ry. Omaha	"		
"	"	James McGovern. Patrick McGovern, mgr. Cap. \$1,000. McGovern's. Shaft, 50,000 tons; horse.		
"	"	Charles Morgan (local). Cap. \$800. Morgan's. Slope, 600 tons; horse.		
Coulterville	Randolph	Coulterville Mining Co., James M. Jones, pres., mgr. and supt., J. Q. A. Nisbet, secy. and treas. Coulterville. Shaft, 20,000 tons; steam.		
Cowley	Knox	William Fish (local). Slope, 80 tons; hand.		
"	P. O. and Ry. Appleton	"		
Craftsfield	Williamson	Ann Edwards (local). Open pit, 1,500 tons; hand.		
"	Marion 709.	"		
"	"	E. E. Ensminger (local). Ensminger. Slope, 1,500 tons; horse.		
Cuba	Putnam	Cuba Union Coal Co., Cuba. Shaft, 15,000 tons; steam. J. McLaws, supt.		
"	Ry. 275, 762	"		
"	"	Eagle Mining Co., Galesburg, Ill., 14 Summer st., S. H. Bateman, mgr. and supt. Cap. \$20,000. Eagle. Slope, 25,000 tons; hand.		
"	"	Wm. Nicholson & Sons. Star. Tunnel, 624 tons; horse. Wm. Nicholson, supt.		
"	"	Wm. Rutherford & Co., Wm. Rutherford, pres., H. J. Etnor, secy. and treas. Cap. stk. \$10,000. Shaft, steam. J. G. Wilson, supt.		
Cutler	Perry	Solomon Maynard. Cap. \$5,000. Maynard's. Shaft, 400 tons; horse.		
"	Ry. 786	"		
Danville	Vermillion	Consolidated Coal Co., St. Louis, Mo., Fourth and Olive sts., Chas. Ridgely, pres.; Geo. T. Cutts, secy. and treas.; J. C. Simpson, mgr. Cap. stk. \$5,000,000. Danville No. 3. Shaft, 100,000 tons; steam. Danville No. 4. Shaft, 200,000 tons; steam. A. C. Daniels, supt.		
"	Ry. 146, 450, 784.	"		
"	"	F. D. Frazier & Son (local). Cap. \$10,000. Frazier. Slope, 3,000 tons; horse. D. L. Frazier, supt.		
"	"	Wm. L. Le Warm, cor. Kimmber and Chandler. Cap. \$5,000. Moor Bank. Slope, 3,000 tons; horse.		

COAL BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, USUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	COUNTY		
Danville	Vermilion	John A. Lewis, local. Cap. \$5,000. Fairchild's. Tunnel, 1,500 tons, horse.	
"	"	Elisha Lloyd. Cap. \$2,000. Stat. Shaft, 4,000 tons, horse.	
"	"	J. E. Lloyd. Cap. \$4,000. Lloyd's. Slope, 4,800 tons, horse. E. D. Lloyd, supt.	
"	"	Manek Bros., local. Cap. \$5,000. Busy. Shaft, 3,500 tons, horse.	
"	"	Ray & Bolton, 1012 Lincoln st., local. Slope, 4,000 tons, horse. Wm. Ray, supt.	
"	"	Wm. Reddy, Danville, Ill., 410 Buchanan st. Wagner. Tunnel, slope, 4,847 tons, horse. Ed. Reddy, supt.	
"	"	Shepherd & Son, local. Cap. \$4,000. Shepherd's. Slopes, 2,000 tons, horse. W. A. Shepherd, supt.	
"	"	Stratton & Watkins, local. Cap. \$10,000. Watkins' Glen. Tunnel, slope, 6,000 tons, horse. Wm. Watkins, supt.	
"	"	C. D. Williams. Cap. \$5,750. Slope, 6,000 tons, horse.	
Dawson	Sangamon	Wabash Coal Co., Quincy, Ill., 400 Main st. Fred. Walms, pres. and mgt.; W. Walms, secy.; S. W. Eldred, treas.; Cap. stk. \$10,000. Dawson. Shafts, 15,000 tons, steam. T. P. Mowatt, supt.	
Decatur	Macon	Decatur Coal Co., foot of E. Main st. H. W. Hill, pres.; O. E. Gartin, secy. and treas.; W. C. Armstrong, mgt. and supt.; Cap. stk. \$100,000. Decatur. Shaft, 150,000 tons, steam.	
De Soto	Jackson	Big Muddy Coal & Coke Co., Casper Koehler, pres.; Daniel Stedee, secy. and supt.; G. H. C. Bodeker, treas.; Cap. stk. \$5,000. Nos. 1 and 2. Shafts, 35,427 tons, steam.	
Diamond	Grundy	Whilmington Coal Mining & Manufacturing Co., Chicago, Ill., The Temple, cor. Monroe and La Salle sts., Room 727. Hon. H. J. Jewett, pres.; D. S. Gray, secy.; James Caldwell, treas.; H. C. Fordyce, mgt.; Cap. stk. \$150,000. Diamond. Shaft, 15,000 tons, steam. David Skinner, supt.	
Dunsmuir	Fullton	Snider & Bender, local. Tunnel, 300 tons, hand.	
Dunfermline	Fullton	Whitebreast Fuel Co., Chicago, Ill., 910 Bookery Bldg. J. C. Osgood, pres.; C. F. Phelps, secy.; G. W. Traut, treas.; T. J. Phillips, mgt.; Cap. stk. \$1,000,000. Mine C. Shaft, 171,968 tons, steam. Alex. Jenkins, supt.	
"	"	Whitebreast Fuel Co., Chicago, Ill., 910 Bookery Bldg. J. C. Osgood, pres.; C. F. Phelps, secy.; G. W. Traut, treas.; T. J. Phillips, mgt.; Cap. stk. \$1,000,000. Mine D. Shaft, 7,000 tons, steam. Alex. Jenkins, supt.	
Du Quoin	Perry	Du Quoin Coal Mining Co., C. McKinley, pres.; J. M. Browning, secy.; Browning. Shaft, 10,000 tons, steam. Joseph Brookshier, supt.	
"	"	Egyptian Mining Co., W. T. Maclin, pres.; C. H. Hatfield, secy. and supt.; L. S. Smith, treas.; Cap. stk. \$5,000. Egyptian. Shaft, 300,000 tons, steam.	
"	"	Excelsior Coal Mining Co., Thos. Wilson, pres.; C. F. Blakeslee, secy. and treas.; S. A. Rice, mgt. and supt.; Cap. stk. \$1,400. Excelsior. Shaft, 10,000 tons, steam.	
"	"	Greenwood Coal Co., Wm. Greenwood, mgt.; Greenwood. Shaft, 45,000 tons. J. W. Greenwood, supt.	
"	"	Horn's Coalery Co., Henry Horn, pres.; Horn's Coalery. Shaft, 120,000 tons, steam. Frank Horn, supt.	
"	"	Jupiter Mining Co., Division st. Jas. J. Sylvester, pres.; W. W. Sylvester, secy. and treas.; S. B. Eaton, mgt. and supt.; Cap. stk. \$300,000. Jupiter. Shaft, 124,000 tons, steam.	
"	"	Perry County Coal Mining Co., Don Onstoft, pres.; Wm. Goddard, secy., treas. and supt.; Walter Williams, mgt.; Cap. stk. \$7,000. Perry county. Shaft, steam.	
"	"	Superior Coal Mining Co., St. Louis, Mo., 21 Exchange Bldg.; Peter Nicholson, pres.; A. M. Clark, mgt.; Superior. Shaft, 90,000 tons, steam. Jas. Thornton, supt.	
East Peoria	Tazewell	Edwards & Colver, Peoria, Ill., 110 N. Jefferson av. local. Cap. stk. \$4,000. East Peoria. Slope, 8,000 tons, steam. Wm. Reynolds, supt.	
Edinburg	Christian	Edinburg Coal Mining Co., Basil Greenwood, pres.; Geo. F. Harrington, secy. and treas.; David J. Lloyd, mgt. and supt.; Cap. stk. \$50,000. Greenwood. 70,000 tons, steam, electricity and compressed air.	
Edwards	Peoria	Bowarth & Taylor Bros., Cap. \$15,000. Slope, 50,000 tons, steam. Breaker. James Taylor, supt.	
"	"	Kramm Bros., Peoria, Ill., 410 Woolmer Bldg. Cap. \$10,000. Pratt, 30,000 tons, steam. Breaker. D. Kramm, supt.	
Edwardsville	Madison	Madison Coal Co., St. Louis, Mo., 415 Locust st. Wm. L. Gony, pres. and treas.; J. T. Gaddy, mgt.; Cap. stk. \$300,000. Edwardsville. Shafts, 35,000 tons, steam.	
Eldorado	Saline	Eldorado Coal Co., J. H. Misgrace, mgt.; Brooklyn. Slope, 6,000 tons, steam.	
Elmira	Stark	Chas. Collet. Shaft, 60 tons.	
Elmwood	Peoria	John A. Endris, local. Endris. Shaft, 20,000 tons, horse.	
Equality	Callahan	Equality Coal Co., E. Temple, pres.; Treas. and mgt.; J. C. Castle, secy.; Cap. stk. \$10,000. Shaft, 20,000 tons, steam, 25 coke ovens, capacity 60,000 tons. Ira W. Jennings, supt.	
Essex	Kankakee	Thomas Treasure & Sons, John T. Treasure, secy.; Cap. \$2,000. Treasure's. Shaft, 30,000 tons, horse.	
Evanz	Franklin	W. A. King, local. King's. Open pit, 300 tons, hand.	
Exeter	Scott	Jas. F. Morris. Slope, 400 tons.	
Fairbury	Livingston	Walton Bros., Central. Shaft, 1,500 tons, steam. Isaac Kerr, supt.	

COAL—BITUMINOUS—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	COUNTY		
Fairview	Fulton	Samuel Parr (local). Coal Creek. Open pit, 320 tons; hand.	
"	"	Theodore Punyca (local). Cap. \$1,000. Punyca. Tunnel, 3,000 tons; hand.	
Farmington	Fulton	Clare Coal Co., Chicago, Ill., 413 Phenix Bldg., J. S. Morton, pres.; H. N. Taylor, secy. and mgr.; J. F. Stone, treas. Cap. stk. \$25,000. No. 2. Shaft, 80,000 tons; steam. Wm. Cruckshanks, supt.	
Fiatt	Fulton	E. R. Greene, Galesburg, Ill., 23 Main st. Cap. \$40,000. Fiatt. Slope and shaft, 8,019 tons; horse and steam. C. H. Casson, supt.	
Flint	Hamilton	J. C. Harper (local). Cap. \$1,000. Knight's Prairie. Open pit, 280 tons; hand.	
Fosterburg	Madison	Wm. H. Fichenal (local). Slope, 325 tons; hand.	
"	"	B. F. Lucking (local). Charles H. Lucking, mgr. Cap. \$400. Lucking's. Shaft, 600 tons; horse.	
Fredonia	Williamson	Crystal Plate Glass Co., St. Louis, Mo., 404 Market st., E. A. Hitchcock, pres.; Edmund T. Allen, secy.; Chas. W. Barnes, treas.; H. Willson, mgr. and supt. Cap. stk. \$1,500,000. Fredonia. Shaft, 100,000 tons; steam.	
"	"	Searbro & Griffin (local). Cap. stk. \$1,000. Sprague. Shaft, 2,000 tons; horse.	
Freeburg	St. Clair	Chas. Becker. Cap. \$5,000. Freeburg. Shaft, 15,000 tons; steam. Frank Nohd, supt.	
"	"	Randolph Coal Co., Philip Cornath, pres.; Peter Herman jr., secy., treas. and mgr. Cap. stk. \$10,000. Randolph. Shaft, 50,000 tons; steam. Wm. Randolph, supt.	
"	"	St. Clair Coal Co., St. Louis, Mo., 311 Olive st., Crittenden McKinley, pres.; E. B. Huff jr., secy., W. S. Scott, treas. and mgr. Cap. stk. \$25,000. St. Clair. Shaft, 60,000 tons; steam. Anton Danzer, supt.	
Galesburg	Knox	Galesburg Pressed Brick & Tile Co., 23 Main st., J. C. Stewart, pres.; J. H. Calkins, secy. and treas. Cap. stk. \$150,000. Shaft, 7,887 tons; steam. Peter Dolan, supt.	
"	"	Mrs. P. Milan (local). Cap. \$4,000. Superville. Shaft, 40 tons; horse.	
"	"	Ross S. Woodward (local). Superville. Shaft, 2,600 tons; horse and water. John Ross, supt.	
Galva	Henry	Gray Eagle Coal Co., Wm. J. Reed, pres.; Squire Anderson, secy., O. L. Peterson, treas. and mgr. Cap. stk. \$4,800. Gray Eagle. Shaft, 20,000 tons; steam. J. A. Bengtson, supt.	
"	"	Philip Murphy (local). Shaft, 120 tons; horse.	
"	"	James H. Murray. Cap. \$1,200. Murray's. Shaft, 3,500 tons; steam.	
Gardner	Grundy	Gardner-Whittington Coal Co., J. C. Lutz, pres.; treas. and mgr.; J. F. Covey, secy. and supt. Cap. stk. \$200,000. Gardner. Shaft, 50,000 tons; steam.	
Georgetown	Vernon	J. B. Clifton. Open pit, 300 tons.	
Gilchrist	Merced	Empire Coal Co., Edward H. Thayer, pres.; Chas. F. Alden, secy.; H. M. Gilchrist, treas. and mgr. Cap. stk. \$60,000. Shaft, 88,800 tons; steam. Chas. Shuler, supt.	
Gillespie	Macoupin	Consolidated Coal Co., St. Louis, Mo., Fourth and Olive sts., Chas. Ridgely, pres.; Geo. T. Catts, secy. and treas.; J. C. Simpson, mgr. Cap. stk. \$5,000,000. Gillespie. Shaft, 150,000 tons; steam. John Rolfe, supt.	
Girard	Macoupin	Girard Coal Co., C. C. Armstrong, pres.; A. K. Young, secy., treas. and mgr. Cap. stk. \$75,000. Girard. Shaft, 200,000 tons; steam and compressed air. Hiram M. Young, supt.	
Glenbath	Vernon	Glenbath Coal Co., C. M. Shallow, pres.; W. J. Callahan, secy., W. W. White, treas. Cap. stk. \$100,000. Glenbath. Shaft, 100,000 tons; steam. Chas. Swan, supt.	
Glen Carbon	Madison	Madison Coal Co., St. Louis, Mo., 413 Leoni st., Wm. E. Guy, pres. and treas.; Jas. L. Blair, secy.; J. D. Carby, mgr. Cap. stk. \$300,000. Glen Carbon Nos. 1, 2 and 3. Shaft, 600,000 tons; steam and compressed air. H. Lesler, supt.	
Grape Creek	Vernon	J. W. Blue. Tunnel, 7,500 tons; horse.	
"	"	A. M. Boshong. Cap. \$5,000. Boshong. Tunnel, 5,000 tons.	
"	"	Grape Creek Coal Co., J. B. Brown, pres.; A. N. Sullivan, secy. and treas.; Joseph Fairhall, mgr. Cap. stk. \$600,000. Nos. 1 and 5. Shaft and slope, 210,000 tons; steam. Geo. Coster, supt.	
"	"	Kellyville Coal Co., Danville, Ill., 19 E. Main st., Edna L. W. J. Callahan, pres.; W. L. Runyan, secy.; M. Kelly, treas. and mgr. Cap. stk. \$700,000. Shafts, 250,000 tons; steam. James Doughty, supt.	
"	"	Lucas & Rame, W. Rame, pres., mgr. and supt. J. Lucas, secy. and treas. Cap. stk. \$1,000. Valley. Drift, 2,000 tons; steam.	
"	"	L. J. Mozier & Co., L. J. Mozier, pres.; C. J. Mozier, secy.; Jas. McDowell, mgr. and supt. Cap. stk. \$30,000. Grape Creek. Slope and open pit, 50,000 tons; horse.	
"	"	Pawnee Coal Co., Chicago, Ill., No. 365, Rookery, Bernard Hummel, pres. and mgr.; R. W. McKay, secy. and treas. Cap. stk. \$25,000. Pawnee. Shaft, steam. W. W. Keeler, supt. (developing).	
"	"	Protective Cooperative Mining Co., Joseph Hays, pres. and treas.; David Owens, secy.; John Shaw, mgr. and supt. Cap. stk. \$5,250. Cooperative. Shaft, 16,000 tons; horse.	
"	"	Spellman Coal Co., Thos. I. Spellman, pres.; S. J. Spellman, secy. and treas.; Wm. Tenney, mgr. Cap. stk. \$20,000. Drift, 30,000 tons; horse, steam. James Prior, supt.	
Greenview	Menard	Menard Coal Co., S. T. Hurst, pres.; J. A. Petric, secy. and mgr.; E. D. Taylor, treas. Cap. stk. \$40,000. Menard Nos. 1 and 2. Shaft, 112,000 tons; steam. J. A. Bracken, supt.	
Griffin	Merced	Griffin Bros. (local). Cap. \$10,000. Shaft, horse.	
Groveland	Lancaster	J. T. Mace, Pekin, Ill. (local). Cap. \$,000. Union. Shaft, 25,000 tons; horse.	

COAL, BITUMINOUS (CONTINUED)

LOCATION OF MINE, ALWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWNS	COUNTY.		
Grovesland (Continued.)	Tazewell	Jacob Schmidt, local.	Cap. \$2,000. East Power. Shaft, 3,634 tons, horse.
"	"	Geo. Wieland, local.	Cap. \$500. Shaft, 1,970 tons, horse.
Grobb Ry. 70	Jackson	A. C. Crain, local.	Crain's. Slope, 60 tons, horse.
Hampton Ry. 141	Rack Island	Groth Bros.	Potter's. Slope, 925 tons, hand.
"	"	Northern Mining & Railway Co., Samuel Henry, pres., Morris S. Henry, secy. and treas., Cap. \$tk. 824,000. Shaft, 6,638 tons, steam. Robert Pickett, supt.	
Harmony Station (Not a P. O.) Ry. 102	St. Clair	Crown Coal Co., St. Louis, Mo., foot of Carr st., J. F. Taylor, pres., mgt. and supt. Earl S. Adams, secy. and treas., Cap. \$tk. 840,000. Crown. Shaft, 87,500 tons, steam.	
Harris P. O. and Ry. Bushnell 135, 702	Fulton	Robert Orr, local.	Orr's. Slope, 60 tons, hand.
Harrisburg Ry. 176	Saline	Dayenport & Co., Wm. N. White, secy. and treas., John Dayenport, mgt. and supt. Elmer Horck, Shaft, 15,000 tons, steam.	
"	"	Howell & McCreary.	Cap. \$15,000. Clifton. Slope, 700 tons, horse. W. H. Howell, supt.
Hawley Ry. Galva 135, 635	Henty	John Rochford.	Cap. \$500. Round Grove. Shaft, horse.
"	"	Smith & Hodsall, local.	Round Grove. Slope, 1,700 tons, steam. S. H. Hodsall, supt.
Hillery Ry. 170	Vermilion	Z. T. Casteel.	Cap. \$2,000. Holden. Shaft, 1,000 tons, horse.
Hillboro Ry. 170	Montgomery	Hillboro Coal Co., G. W. Phoebe, pres., W. A. Finney, secy. Treas. and mgt. Cap. \$tk. 80,000. Shaft, 7,000 tons, steam. Wm. Kortkamp, supt.	
Holt P. O. on Ry. Orchard Mines 702	Peoria	German Coal Co., Henry C. Gier, pres. and mgt., John Backus, secy. Fred Backus, treas., Cap. \$tk. \$500. Belmont. Slope, 1,500 tons, hand.	
"	"	James Ridgman.	Cap. \$8,000. Lammash Creek No. 1. Open pit, 70,000 tons, hand.
"	"	Adam Sholt, Peoria, Ill., Woodmen Bldg., Room 13.	Cap. \$20,000. Sholt's No. 1. Open pit. Slope, and shaft, 14,800 tons, steam. Joseph Sholt, supt.
Hornick Ry. 704	Vermilion	J. W. Jones, local.	Open pit, 775 tons, horse.
Industria Ry. Macomb 145	McDonough	John McIntire, local.	Thorne. Shaft, 1,200 tons, horse.
"	"	Jacob W. Smith, local.	Slope, 1,000 tons, horse.
Ipsva Ry. 175	Fulton	C. & R. Roddis.	Cap. \$1,000. Ipsva, Tunnel, 2,000 tons. Robert Roddis, supt.
Julesburg Ry. Edwards 145	Peoria	Samuel Mashay.	Julesburg. Tunnel, 75 tons, hand.
Kangley Ry. 26, 145, 145, 784	La Salle	Star Coal Co., Star Coal, P. W. H. Hammond, pres. and mgt. Cap. \$tk. 81,200,000. Kangley Nos. 1 and 2. Shaft, 9,000 tons, steam. John O. Kangley, supt.	
Kewanee Ry. 175	Henty	Thomas Carter, local.	Cap. \$300. Shaft, 1,000 tons, hand.
"	"	Ernest Kemper, local.	Slope, 1,144 tons, hand.
"	"	Kewanee Coal Co., F. T. Palmer, pres., J. C. Webb, secy. and mgt., A. M. Heisterkamp, secy. and treas., Cap. \$tk. \$25,000. Shaft, 9,000 tons, steam. J. D. Emerson, supt.	
"	"	Thomas Foster, local.	Slope, horse.
"	"	Elbert & McMullen, local.	Shaft, 6,000 tons, steam. Philip Heisterkamp, supt.
Kennett Ry. Edwards 145	Peoria	John Dehann, local.	Runner. Slope, 800 tons, hand.
Kennedy Ry. 170	Marion	W. S. Mittlebs, local.	Kennedy. Shaft, 1,000 tons, hand.
Knoxville Ry. 175	Knox	E. C. Goodis, local.	Box 182. Shaft, 1,000 tons, hand.
"	"	Samuel Hopper & Son, local.	Cap. \$15,000. Hopper, 10,000 tons, hand. Samuel Hopper, supt.
La Grange Ry. 175	Beard	Whitehead Coal Co., Chicago, Ill., City Brewery Bldg., J. C. Ozgon, pres. and mgt., E. P. Whitehead, secy. and treas., Cap. \$tk. \$100,000. La Grange, mgt. and supt. \$15,000. Mine No. 1. Shaft, 1,000 tons, steam. J. P. Heisterkamp, supt.	
Lane's shacks, P. O. and Ry. Orchard Mines 702	Peoria	D. B. Knowles.	Cap. \$1,000. Route 18. Slope, 1,000 tons, hand.
La Salle Ry. 145, 145, 379	La Salle	Union Valley Coal Co., J. F. Jay, pres., J. O. Wright, secy. and mgt., P. S. H. Wright, treas., Cap. \$tk. 835,000. No. 1. Shaft, 125,000 tons, steam. G. W. Wright, supt.	
"	"	Union Valley Carbon Co., J. F. Jay, pres., J. O. Wright, secy. and mgt., P. S. H. Wright, treas., Cap. \$tk. 800,000. La Salle and Rockwell. 12,000 tons, steam. G. W. Wright, supt.	
"	"	Mathiasen & Heisterkamp Zinc Co., E. C. Heisterkamp, pres. and mgt., W. M. Mathiasen, secy. and treas., John Heisterkamp, supt.	
"	"	Ogden Coal Co., T. T. Reed, pres. and mgt., T. T. Reed, secy. and treas., A. S. Reed, treas., J. T. Reed, supt.	

COAL—BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
La Salle	La Salle	Union Coal Co., James W. Duncan, pres., A. J. O'Connor, secy., John Shatt, treas., N. W. Duncan, mgt., Cap. stk. \$30,000. No. 1. Shaft, 125,000 tons, steam. R. M. Hetherington, supt.		
Ledford	Saline	James C. Heenan, Cap. 8000. Ledford. Slope and open pit, 481 tons, horse.		
Lewistown	Fulton	Isaac Bath (locat.). Bath. Slope, 1,200 tons, horse.		
"	"	Jerome Williams (locat.). Cap. \$100. Athy. Tunnel, 4,000 tons, hand.		
Lindestone	Peoria	John Lanck (locat.). Cap. \$1,000. Green Valley. Shaft, 6,000 tons, steam. Geo. Freezer, supt.		
"	"	James Sleas (locat.). Cap. \$400. Sleas's. Slope, 10,000 tons, hand.		
Lincoln	Logan	Citizens' Coal Mining Co., A. Mayfield, pres., P. Casey, secy., P. O'Leary, treas. Cap. stk. \$30,000. Citizens'. Shaft, 100,000 tons, steam. F. E. Holmes, supt.		
"	"	Lincoln Coal Co., Cap. \$900,000. Nos. 1 and 2. Shaft, 90,000 tons, steam. Frank Trover, supt.		
Litchfield	Montgomery	Litchfield Coal Co., 6 State st., Isaac Kirby, pres., D. Davis, jr., secy., treas. and supt.; Joseph Richardson, mgt., Cap. stk. \$30,000. Litchfield. Shaft, steam.		
Loceyville	Bureau	Chicago, Wilmington & Vermillion Coal Co., Chicago, Ill., The Temple, cor. Monroe and La Salle sts., Francis Bartlett, pres., A. L. Sweet, secy. and mgt., Thos. A. Lehman, treas. Open pit, 50,000 tons, steam. James Cherry, supt.		
Loding	Rock Island	Donald & Jamieson (locat.). Cap. \$2,000. Shaft, 4,000 tons, steam. E. G. Jamieson, supt.		
"	"	John H. Loding (locat.). Cap. \$2,000. Loding. Slope, 4,000 tons, steam.		
Lombardville	Stark	A. W. Higbee (locat.). Cap. \$1,000. Lombardville. Shaft, 150 tons, horse.		
Maple's Mill	Fulton	J. W. Lamb. Lamb. Slope, 600 tons, hand.		
Marietta	Fulton	J. A. Anderson & Sons (locat.). Slope, 300 tons.		
Marion	Williamson	William P. Allen (locat.). Box No. 188. Slope, 7,500 tons, hand.		
"	"	William Tappett (locat.). Cap. \$500. Slope, 750 tons, horse.		
Marissa	St. Clair	Consolidated Coal Co., St. Louis, Mo., Fourth and Olive sts., Charles Ridgely, pres., Geo. T. Cutts, secy. and treas., J. C. Simpson, mgt., Cap. stk. \$5,000,000. White Oak. Shaft, 100,000 tons, steam. Chas. Rodenberg, supt.		
Milan	Rock Island	William Parker (locat.). Cap. \$1,000. Shaft, 2,500 tons, hand and horse.		
"	"	Fred. Von Ach (locat.). Cap. \$150. Von Ach. Shaft, 125 tons, horse.		
Millersburg	Merced	Parker & Morris (locat.). Slope, 68 tons, hand.		
Millstadt	St. Clair	Millstadt Coal & Mining Co., Wm. Preusser, pres., Charles Jacobus, secy., Joseph Marxer, treas., Thos. Sutton, mgt. and supt., Cap. stk. \$6,000. Shaft, 17,000 tons, steam.		
Mineral	Bureau	W. H. Forrest. Cap. stk. \$10,000. Indian Hill. Shaft, 5,000 tons, horse.		
Minonk	Woodford	Estate of Miner T. Ames, Chicago, Ill., 145 La Salle st., Mrs. Irene C. Ames, administratrix, Cap. \$165,000. Chicago and Minonk. Shaft, 100,000 tons, steam. D. S. Richards, supt.		
Mission Fields	Vermillion	John Woodard. Shaft, 2,000 tons, horse.		
Moneta	Peoria	Charles Berry & Sons (locat.). Charles Berry, mgt., Cap. \$800. Guyer. Shaft, 900 tons, horse. William Berry, supt.		
"	"	Wesley Dalrymple. Cap. \$6,000. Black Diamond. Shaft, 7,500 tons, horse.		
Monmouth	Warren	William Packard (locat.). Slope, 610 tons, hand.		
Monterey	Fulton	Robert Williams (locat.). Slope, 7 tons, hand.		
Mono	Madison	Herman Kahel (locat.). Cap. \$500. Shaft, 1,200 tons, horse.		
Morris	Grundy	Heathler & Wood (locat.). Cap. \$2,000. No. 4. Shaft, 5,000 tons, horse. Wm. Wood, supt.		
"	"	T. L. Thurston (locat.). Shaft, 1,500 tons, horse.		
"	"	A. E. Watson (locat.). Shaft, 600 tons, horse.		
Mt. Olive	Macoupin	Consolidated Coal Co., St. Louis, Mo., Fourth and Olive sts., Chas. Ridgely, pres., Geo. T. Cutts, secy. and treas., J. C. Simpson, mgt., Cap. stk. \$5,000,000. Mt. Olive No. 10. Shaft, 200,000 tons, steam. Mt. Olive No. 8. Shaft, 205,000 tons, steam. Jos. C. Hebenstreit, supt.		
"	"	Mount Olive Coal Co., G. E. Ehlert, pres., G. D. L'Hullier, secy., A. J. Moorehead, asst. treas. and mgt., Cap. stk. \$1,000,000. No. 1. Shaft, 150,000 tons, steam. Joseph Hann, supt.		
Moweaqua	Shelby	Moweaqua Coal Mining & Manufacturing Co., J. E. Gregory, pres., A. J. Combs, secy., V. Snyder, jr., treas., Chas. J. White, mgt. and supt., Cap. stk. \$25,000. Moweaqua. Shaft, steam.		
Muddy Valley	Jackson	Muddy Valley Mining & Manufacturing Co., N. C. Wright, pres. Muddy Valley. Shaft, 150,000 tons, steam. John Forester, supt.		

COAL.—BITUMINOUS. (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COAL OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND COUNTIES		
Murphysboro,	Jackson	Gartside Coal Co., St. Louis, Mo., 514 Pine st., C. E. Gartside, pres't, treas. and mgt., Alexander Hamilton, secy., Cap. stk. \$600,000. Nos. 1, 2, 3, 4. Shafts, 120,000 tons, steam and compressed air. Frank Hartman, supt.	
"	"	New Kentucky Coal Co., Chicago, Ill., 215 Dearborn st., P. D. Whitehead, pres't, Thos. J. Whitehead, secy. and treas., Cap. stk. \$600,000. New Kentucky, 300,000 tons, steam.	
"	"	Edgar E. Poole, Cap. \$2,000. Poole, Shaft, 1,500 tons, steam.	
"	"	St. Louis Ore & Steel Co., St. Louis, Mo., Granite Bldg., E. A. Hitchcock, pres't, O. L. Garrison, secy. and treas., Shafts Nos. 1 and 5, Harrison. Shafts, 60,000 tons, steam. J. D. Peters, supt.	
"	"	D. P. Willis (local), Cap. \$12,000. Willis, Shaft, 12,000 tons, steam. Thos. W. Coll, supt.	
Murrayville	Morgan	E. Wagstaff (local), Wagstaff, Open pit, 120 tons, horse.	
Ry. 115.			
Newcastle	Saline	Davenport & Co., Harrisburg, Ill., John Davenport, pres't, W. N. White, secy. and treas., W. H. Hallsopp, mgt., Cap. stk. \$9,000. Newcastle, Shaft, 30,000 tons, steam. W. R. Williams, supt.	
Ry. 170.			
Newtown	Livingston	L. A. Muntz & Sons, local, Cap. stk. \$600,000. Muntz, Tunnel, 100 tons, horse.	
P. O. Streator,			
Nantite,	Macon	Nantite Coal Co., Henry Shandeman, pres't, Albert Barnes, secy., treas. and mgt., Cap. stk. \$25,000. Shaft, 100,000 tons, steam. Richard Henley, supt.	
Ry. 784.			
Nilwood	Macoupin	Nilwood Carbon Coal Co., H. Cooper, pres't, J. W. Cooper, secy. and treas., C. Cooper, mgt. and supt., Cap. stk. \$15,000. Shaft, 100,000 tons, steam.	
Ry. 115.			
Norris	Clinton	D. H. Williams, Cap. \$5,000. Norris, Shaft, 60,000 tons, steam. W. J. Spencer, supt.	
Ry. 155.			
North Alton	Madison	Nathan Syddall, Cap. \$600. Shaft, 374 tons, horse. Nathan Syddall, supt.	
Ry. 115, 170, 708.			
Oakwood	Vermilion	Consolidated Coal Co., St. Louis, Mo., cor. Fourth and Olive sts., Chas. Ridgeley, pres't, Geo. L. Cutts, secy. and treas., J. C. Simpson, mgt., Cap. stk. \$2,000,000. Mission Field Strippings. Open pit, 150,000 tons, steam. V. C. Daniel, supt.	
Ry. 116, 170.			
"	"	Middle Fork Coal Co., George W. Abdl, pres't, Michael France, secy., Cap. stk. \$100,000. France, Shaft, 150,000 tons, steam. Alfred Blake, supt.	
Odm,	Marion	Odm Coal Co., N. B. Morrison, pres't, F. D. Secon, secy., mgt. and supt., Ira W. Lane, treas., Cap. stk. \$25,000. Odm, Shaft, 100,000 tons, steam.	
Ry. 319, 538.			
O'Fallon	St. Clair	Wm. Crowson & Sons, St. Louis, Mo., 702 N. Seventh st., Wm. Crowson, sta. pres't, Fred Crowson, jr., secy., Eltha Crowson, treas. and supt., Wm. Crowson, jr., mgt., Cap. stk. \$25,000. Barrow, Shaft, 200,000 tons, steam.	
Ry. 548.			
Okawville	Washington	F. W. Stricker (local), Cap. \$500. White Smoke, Shaft, 1,000 tons, steam. Mike Batthusa, supt.	
Ry. 108.			
Ora	Jackson	Wm. Campbell, local, Cap. \$2,700. Campbell's, Slope, 750 tons, horse.	
Ry. 163.			
"	"	Henry Ditzler, Cap. \$300. Enterprise, Slope, 500 tons, horse.	
Orchard Mines	Peoria	J. J. Petri, local, Pekin, Ill., Slope, 80 tons, hand.	
Ry. 762.			
"	"	James Green (local), Cap. \$500. Green, Slope, 1,200 tons, horse.	
Other Creek	La Salle	N. Plumb, lessee, Cap. \$25,000. Other Creek, Shaft, 40,000 tons, steam.	
P. O. and Ry. 26, 115, 784	Streator		
Otto	Clinton	Isaac Hendee, Cap. \$300. local, Turkey Branch, Tunnel, 45 tons, hand.	
Ry. 749.			
Peña	Christian	Penwell Coal Mining Co., Geo. N. Penwell, pres't, treas. and mgt., E. Schleisbach, secy., Cap. stk. \$50,000. Penwell Colliery, Shaft, 150,000 tons, steam. John Lee Byon, supt.	
Ry. 170, 319, 538.			
"	"	Springdale Coal Mining Co., D. J. Overholt, pres't and treas., Lewis Overholt, secy., Cap. stk. \$50,000. Shaft, 200,000 tons, steam. John Budd, supt.	
Pekin	Lawrence	Frank Lowery, Cap. \$10,000. Hawley, Shaft, 25,000 tons, steam.	
Ry. 551.			
"	"	J. E. Moore, local, Cap. \$800. Union, Shaft, 2,500 tons, horse.	
Peoria	Peoria	Richard Cody, Martin st., Cap. \$6,500. Shaft, 650 tons, steam and horse.	
Ry. 155, 112, 170, 319, 538, 571, 762, 749, 762.			
"	"	Wm. F. Grant, 720 S. Adams st., Cap. \$2,000. White Oak, Green Oak, Slope, steam.	
"	"	Peter Grant & Son, 113 Depot st., John R. Grant, mgt., Cap. \$25,000. Excelsior, Shaft, 25,000 tons, steam. Geo. Waugh, supt.	
"	"	Ed. Little Mining Co., 25 South Adams st., A. Little, pres't and mgt., W. F. Carty, secy. and treas., Cap. stk. \$5,000. Little, Shaft, 40,000 tons, steam. T. A. Elliott, supt.	
"	"	Millard & Wolschlag, 200 S. Adams st., Jas. Millard, mgt., Cap. stk. \$10,000. Millard's, Tunnel, 30,000 tons, steam. Stephen Wolschlag, supt.	
"	"	Royster Bros., 521 S. Washington st., Eugene, Shaft, 20,000 tons, steam, compressed air. Moses Royster, supt.	
"	"	F. P. Schmidt & Sons, local, 140 S. Adams st., Slope, 750 tons.	
Peve	Randolph	Wm. Goolley & Son, No. 1 and No. 2, Shafts, 22,082 tons, steam. Wm. H. Goolley, supt.	
Ry. 163.			
Pern	La Salle	Estate of Jas. Cahill, Cap. stk. \$10,000. Cahill, Shaft, 10,000 tons, steam. J. C. Cahill, supt.	
Ry. 155, 112.			

COAL BITUMINOUS—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE DRILLS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Pineknobville		Perry	G. W. Brown, Cap. \$25,000. Open pit, 25,000 tons, steam. Thos. M. Brown, supt.	
"		"	Forst, Turner & Malone, Main st. Schult's. Shaft, 3,000 tons, steam. C. Forst, supt.	
"		"	Wood Bros. Shaft, 1,500 tons, horse.	
Pleasant Plms., Sangamon			Springfield & Pleasant Plains Coal Co., James M. Graham, secy.; M. Connelly, treas.; John McLean, mgr. and supt. Cap. stk. \$80,000. Pleasant Plains. Shaft, 8,487 tons, steam.	
Pleasant View, Schuyler			Henry & Walter Croxton. John S. Vance, mgr. Vance's. Tunneled, 25,330 tons, hand.	
"		"	Pleasant View Coal Co., Thos. Allen, pres., Geo. Spillers, secy. and supt. Cap. stk. \$5,000. Pleasant View. Shaft, 4,000 tons, horse.	
Port-town, Peoria			Howarth & Taylor Bros. Cap. \$15,000. Young's and Red Bud. Drifts, 25,000 tons, horse. James Taylor, supt.	
"		"	Isaac Wantling & Son, Peoria, Ill., 611 Fourth st. Cap. \$40,000. Drift, tunneled, slope, 50,000 tons, steam. breaker, T. J. Wantling, supt.	
Prarie City, McDonough			A. Hartford. Slope, 800 tons, hand.	
Prescription, Mercer			Thomas D. Peter Doeherry locally. Shaft, 2,500 tons, horse.	
Reading, Livingston			M. J. Barnekinaw & Son, 301 Main st. Cap. \$40,000. Shaft, 34,000 tons, steam.	
"		"	Lukins & Cavanaugh. Cap. \$25,000. No. 2. Shaft, 45,000 tons, steam. Jas. Haddick, supt.	
Reichler, St. Clair			Wm. Ogden & Bro. Cap. \$5,000. Enterprise. Shaft, 10,000 tons, steam. Henry Reble, supt.	
Ridgely, Sangamon			Springfield Cooperative Coal Co., John H. Scheidner, pres., mgr. and supt., Mrs. F. Scheidner, secy., M. Connelly, treas. Cap. stk. \$50,000. Shaft, 10,000 tons, steam.	
"		"	Whittington & Springfield Coal Co., Wm. Ridgely, pres., Edward Ridgely, secy. and treas.; George C. Simpson, mgr. Cap. stk. \$60,000. Nuff, Shaft, 10,000 tons, steam. Wm. T. Golden, supt.	
Ridge Prairie, St. Clair			Consolidated Coal Co., St. Louis, Mo., Fourth and Olive sts., Chas. Ridgely, pres., George T. Cuts, secy. and treas.; J. C. Simpson, mgr. Cap. stk. \$500,000. Mentor. Shaft, 150,000 tons, steam. William Harding, supt.	
"		"	Consolidated Coal Co., St. Louis, Mo., Fourth and Olive sts., Charles Ridgely, pres., George T. Cuts, secy. and treas.; J. C. Simpson, mgr. Cap. stk. \$500,000. Alma. Shaft, 100,000 tons, steam.	
Riverton, Sangamon			Riverton Coal Co., R. W. Jess, pres. and treas., W. R. Jess, secy. Cap. stk. \$40,000. Shaft, 300,000 tons, steam. J. A. Vase, supt.	
Renoike, Woodford			Renoike Mining Co., Peter Belsley, pres. and mgr., Benjamin Belsley, secy., Z. R. Trauer, treas. Cap. stk. \$25,000. Shaft, 40,000 tons, steam. John Gray, supt.	
Rockbridge, Greene			Hill Bros. locally. Slope, 1,000 tons, horse, hand.	
Rockland Grove, Mercer P. O. and Ry. New Windsor 135.			P. C. Peterson, locally. Parker's Run. Slope, 80 tons, horse and hand.	
Roadhouse, Greene			Victor Coal Mining Co., Ellis Briggs, pres., Geo. E. Briggs, secy. and treas., J. F. Colough, mgr. and supt. Cap. stk. \$10,000. Victor. Shaft, steam.	
Rosborough, Randolph			Rosborough Coal & Manufacturing Co., Sparta, Ill., R. H. Rosborough, pres. and mgr.; D. P. Barker, secy. Rosborough. Shaft, steam. Charles Adams, supt.	
Rushville, Schuyler			John & Perry Dodge. McKee. Slope, 2,000 tons, hand.	
"		"	John Kerr. Cap. \$2,000. Kerr's. Shaft, 10,000 tons, steam. D. Koosa, supt.	
Rutland, La Salle			Rut and Coal Co., I. Hale, pres., Wm. G. Sutton, secy., Wm. Maledin, mgr. and supt. Cap. stk. \$200,000. Rutland. Shaft, 90,000 tons, steam.	
St. Clair, St. Clair P. O. and Ry. Belleville 101			York Coal & Mining Co., Belleville, Ill., 248 Silver st., Wm. Hamblin, pres., John R. Faleotto, secy., Peter Schenckelbeck, treas. Isaac Jewett, mgr. and supt. Cap. stk. \$150,000. Oak Hill. Shaft, 100,000 tons, steam.	
St. David, Union			Whitecrest Fuel Co., Chicago, Ill., 914 Rockery Bldg., J. C. Osgood, pres., C. E. Phelps, secy., G. W. Hunt, treas., E. J. Phillips, mgr. Cap. stk. \$1,000,000. Mine 1. Shaft, 60,000 tons, steam. Alex. Jenkins, supt.	
"		"	D. H. Williams. Cap. \$10,000. St. David. Shaft, 40,000 tons, steam. W. J. Spencer, supt.	
"		Perry	Illino Central Coal & Salt Co., Cairo, Ill., T. W. Halliday, pres., M. C. Wright, secy., S. M. Neely, mgr. Cap. stk. \$50,000. Paradise. Slope, 120,000 tons, steam.	
"		Marion	Salem Coal Co., 113-115 Hull, pres., John W. Latimer, secy., Frank Schwartz, treas., Albert R. V. Iron, mgr. and supt. Cap. stk. \$75,000. Salem. Shaft, 3,000 tons, steam.	
"		Madison	Andrew Reed, locally. Saline. Slope, 20 tons, hand. Robert Reed, supt.	
"		Marion	Sandoval Coal & Mining Co., Jas. S. Martin, pres., J. L. Mulholland, secy., Chas. Benham, treas., William G. C. mgr. and supt. Cap. stk. \$25,000. Sandoval No. 1. Shaft, 100,000 tons, steam.	
"		Sangamon	Illinois Fuel Co., Chicago, Ill., 720 Phenix Bldg., Ben. Ives, v. pres. and mgr. Cap. stk. \$150,000. Sangamon No. 1. Shaft, 100,000 tons, steam.	

COAL-BITUMINOUS (CONTINUED)

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COAL—BITUMINOUS—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Stratton	La Salle	Wm. Howe & Co., Rooms 4 and 5 Schlitz Bldg., Wm. Howe, pres. and mgr.; H. H. Charlton, secy. and treas.; No. 1. Shaft, 10,000 tons; steam. E. Harrison, supt.		
"	"	Wm. Lawton. Slope, 1,500 tons; horse.		
"	"	Mints & Sons (local). Cap. \$500. Tunnel, 1,000 tons; horse.		
"	"	Price & Jones, 306 Sumner st. Shaft, 10,000 tons.		
"	"	Sammel Sumpkin, 301 Main st. Cap. \$7,000. Shaft, 35,000 tons; steam.		
Summit Ry., Astoria 135.	Fulton	Solomon Shafter (local). Slope, 150 tons.		
Sumfield Ry., Du Quoin 319.	Perry	Sun Coal & Coke Co., J. D. Buchanan, pres.; A. M. Revelle, secy.; Wm. Jackson, treas.; Robert Duck, mgr. and supt. Cap. stk. \$5,000. Sun. Shaft, 40,000 tons; steam.		
Swan (P. O. and Ry. Youngs- town) 135.	Warren	Thomas Lee & Son (local). Cap. \$150. Shaft, 700 tons; horse.		
"	"	Henry Smith. Cap. \$5,000. Slope, 5,000 tons.		
Sweet Water Ry., Greenview 145.	Menard	William Parkin (local). Cap. \$7,000. Farmer's. Shaft, 2,000 tons; horse.		
Tallula Ry., 145.	Menard	Tallula Coal Mining Co., James Hutton, pres., mgr. and supt., W. L. Robertson, secy., Thomas Hutton, treas. Cap. stk. \$20,000. Shaft, 26,000 tons; steam.		
Taylorville Ry., 738, 784.	Christian	Taylorville Coal Co., R. Wilkinson, pres.; D. D. Shumway, secy. and mgr.; A. G. Barnes, treas. Cap. stk. \$50,000. No. 1 and No. 2. Shaft, 175,000 tons; steam. S. Ainsworth, supt.		
Tilden Ry., 599.	Randolph	Tilden Coal Co., R. K. Torgens, pres., treas. and supt.; J. S. Lindsey, secy.; M. M. Cathcart, mgr. Cap. stk. \$10,000. Tilden. Shaft, 15,000 tons; steam.		
Toulon Ry., 635.	Stark	Aaron Newton (local). Drift, 320 tons; hand.		
"	"	Henry Newton (local). Spoon River. Tunnel, drift, 100 tons.		
Trenton Ry., 598.	Clinton	Consolidated Coal Co., St. Louis, Mo., Fourth and Olive sts., Chas. Ridgely, pres.; Geo. T. Catts, secy. and treas.; J. C. Simpson, mgr. Cap. stk. \$500,000. Trenton. Shaft, 100,000 tons; steam. Wm. Harding, supt.		
Troy Ry., 563.	Madison	Consolidated Coal Co., St. Louis, Mo., Fourth and Olive sts., Chas. Ridgely, pres.; Geo. T. Catts, secy. and treas.; J. C. Simpson, mgr. Cap. stk. \$5,000,000. Troy. Shaft, 100,000 tons; steam. Brookside. Shaft, 60,000 tons; steam. Wm. Fletcher, supt.		
Vermont Ry., 145.	Fulton	Jackson Davis (local). Cap. \$150. Shaft, 950 tons; horse.		
"	"	James Rose. Cap. \$500. Rose's. Shaft, 3,000 tons; horse.		
Viola Ry., 145.	Mercer	G. W. Martin (local). Cap. \$7,000. Pope Creek. Shaft, 3,000 tons; horse.		
Virden Ry., 145, 345.	Macoupin	Virden Coal Co., C. A. Starne, pres.; Wm. Graham, secy., treas., mgr. and supt. Cap. stk. \$100,000. Virden. Shaft, 100,000 tons; steam.		
Virginia Ry., 335.	Cass	Virginia Coal Co., Andrew Morton, pres.; Samuel W. Baker, secy. and treas.; Robert Morton, mgr. and supt. Cap. stk. \$10,000. Virginia. Shaft, 12,000 tons; steam.		
Watauga Ry., 135.	Knox	Geo. E. Boostrom (local). Boostrom. Shaft, hand.		
"	"	H. & J. Taylor. Shaft, hand.		
"	"	Watauga Creek, Tule & Coal Co., W. S. Dewey, pres.; Charles Pester, secy.; H. P. Wood, treas.; H. Taylor, mgr. and supt. Cap. stk. \$25,000. Watauga. Shaft, 5,000 tons; horse.		
"	"	Watauga Coal Mining Co., Hamilton Taylor, pres. and supt.; C. G. Bangston, mgr. Watauga. Shaft, 100,000 tons; horse and hand.		
Wenona Ry., 145, 319.	Marshall	Wenona Coal Co., A. S. Sherwood, pres.; W. E. Monser, secy. and treas.; E. L. Monser, mgr. and supt. Cap. stk. \$15,000. Wenona No. 1. Shaft, 60,000 tons; steam.		
Wesley Ry., 572.	Tazewell	F. Little, Peoria, Ill., 825 S. Adams. Little. Shaft, 60,000 tons; steam. W. Small, supt.		
West Jersey Ry., Toulon 67.	Stark	John Catton (local). Tunnel, 800 tons; hand.		
Westville Ry., 146, 170.	Vermonden	Kellyville Coal Co., Danville, Ill., 19 E. Main st., W. J. Calhoun, pres.; W. L. Ruyian, secy.; M. Kelly, treas. and mgr. Cap. stk. \$200,000. Shafts, 20,000 tons; steam. James Doughty, supt.		
"	"	Pawnee Coal Co., Chicago, Ill., 345 Rookery Bldg., B. Hinrod, pres. and mgr.; P. W. McKay, secy. and treas. Cap. stk. \$25,000. Pawnee. Shaft, steam. W. W. Keeler, supt.		
Wildenham (P. O. Belleville) Ry. 709	St. Clair	T. & H. Mining Co., St. Louis, Mo., 31 Olive st., Crittenden McKinley, pres.; E. E. Hull jr., secy.; W. S. Scott, treas. and mgr. Cap. stk. \$5,000. Wildenham. Shaft, 70,000 tons; steam. Anton Danzer, supt.		
Winchester Ry., 135.	Scott	W. H. Bates & Co. Shaft, 13,000 tons; steam. W. H. Bates, supt.		
Wolcott Ry., Reed City 762.	Peoria	Hinson Coal & Coke Co., Peoria, Ill., 118 N. Adams. J. P. Cook, pres.; Wm. Jack, secy.; H. C. Carrick, treas.; Jas. Stratton, mgr. Reed Mines No. 2. Shaft, 30,000 tons; steam and electricity. John G. Ferguson, supt.		
Worden Ry., 784.	Madison	Consolidated Coal Co., St. Louis, Mo., Fourth and Olive sts., Chas. Ridgely, pres.; Geo. T. Catts, secy. and treas.; J. C. Simpson, mgr. Cap. stk. \$5,000,000. Worden No. 12. Shaft, 25,000 tons; steam. Jos. P. Hebenstreit, supt.		
Wyoming Ry., 665, 175.	Stark	Peter Herberger (local). Slope, hand.		

COAL—BITUMINOUS (CONTINUED)

LOCATION OF MINE, OR BANK, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVEN, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Yates City		Knox	Frank Christman (local).	Cap. \$10,000. Christman. Shaft, 1,200 tons; steam.
Yates City	Ry. 135.			
Yonkersville		Walton	Mrs. Susan Routine (local).	Slope, 200 tons; horse.
Yonkersville	Ry. 135.			
"	"	"	Thos. Wearmouth (local).	Wearmouth. Drift, 3,000 tons; hand.

FIRE CLAY

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.	
TOWN	AND	COUNTY		
Bardolph		McDonough	Bardolph Fire Clay Works.	C. J. Chandler, pres.; J. L. Chandler, secy.; Cap. stk. \$60,000. Shaft and open pit; steam.
Bardolph	Ry. 135.			
Pulaski		Pulaski	Southern Illinois Fire Clay Co.	Geo. B. Johnston, pres.; Edgar S. Low, secy. and treas.; J. W. Hunsaker, mgr.; Cap. stk. \$300,000. Fire clay. Open pit; hand.
Pulaski	Ry. 219.			

LEAD AND ZINC

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Boschier		Hardin	Argyle Fluor Spar & Lead Mining Co.	Washington, D. C., 111 E. St. Argyle. Fluor spar; lead. 6,000 tons; steam.
Boschier	Ry. 333.			
"	"	"	Illinois Fluor Spar & Lead Co.	Chicago, Ill., 77 Bond of Trade Bldg. Geo. C. Mullins, pres.; D. F. Cane, genl. secy.; C. A. Trege, treas. and mgr.; Cap. stk. \$300,000. Illinois. Fluor spar; lead. Shatts, drifts, W. H. Mullins, supt.

SALT

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Saint John		Peery	Illinois Central Coal & Salt Co.	Cairo, Ill., Ohio levee. T. W. Halliday, pres.; M. C. Wright, secy.; S. M. Neely, mgr.; Cap. stk. \$5,000. Packing salt. Wells steam.
Saint John	Ry. 319.			

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE CUTS, LUMBER, AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Aurora		Kane	Riddle & Co.	Broadway and Washington st. Cap. \$20,000. Aurora, limestone. Electricity, mill Dell Cooley, supt.
Aurora	Ry. 135.			
Boschier		Jackson	Carbondale Brown Stone Co.	Chicago, Ill., 578 S. Morgan st. John Rawley, pres. and treas.; A. C. Backus, v. pres.; M. B. Madden, secy.; Carbondale. Open steam mill. Jas. J. Jones, supt.
Boschier	Ry. 319.			
Grafton		Jersey	Grafton Quarry Co.	St. Louis, Mo., No. 415 Locust st., Room 504. James Black, pres.; John S. Roper, secy. and treas.; Cap. stk. \$30,000. Grafton, limestone, magnesite. Open pit, 100,000 tons; steam, horse, hand. Chas. Brimmer, supt.
Grafton	Ry. 138, 708.			
Johet		Will	Kirkpatrick, Howk & Massey.	Geo. Massey, pres.; A. J. Howk, secy. and treas.; J. O. Kirkpatrick, mgr. and supt.; Cap. stk. \$1,000. Limestone. Steam mill.
Johet	Ry. 36, 142, 145, 245.			
Lemont		Cook	Phoenix Stone Co.	Chicago, Ill., 25 Lawrence st. John W. Gill, pres. and treas.; August Kammann, secy.; Martin Delaney, mgr. and supt.; Cap. stk. \$50,000. Phoenix. Open pit, 100,000 tons; steam.
Lemont	Ry. 26.			
Lockport		Will	Sanger, Moody & Steel Stone Co.	Johet, Ill., R. A. Sanger, pres.; C. C. Moody, secy.; Sanger Steel Treas.; Cap. stk. \$85,000. Sanger, limestone, magnesite. Steam.
Lockport	Ry. 36, 135, 142, 145, 245.			
Millington		Kendall	American Silica Sand Co.	Cleveland, Ohio, Society for Savings Bldg. Eva H. Malone, pres.; J. M. Alverhoff, secy.; R. W. Grogan, treas.; Cap. stk. \$50,000. American, silica sand. Open pit, 120,000 tons; steam, mill. R. F. Young, supt.
Millington	Ry. 145.			
Peoria		Peoria	I. Maht & Son,	334 Woodner Bldg. local. Swords, limestone. Open pit, 10,000 tons; steam. Ed. E. Maht, supt.
Peoria	Ry. 145, 142, 170, 335, 378, 572, 749, 762.			
Thelma		Alexander	Southern Illinois Lithograph Stone Co.	Pulaski, Ill., Geo. B. Johnston, pres.; Edgar S. Low, secy. and treas.; J. W. Hunsaker, mgr.; Cap. stk. \$300,000. Lithograph stone. Open pit; steam developing.
Thelma	Ry. 178, 163.			

SEE ALSO SUPPLEMENTARY LIST

INDIANA

COAL—BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,240 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Altordsville,		Daviess	J. A. McCord (local). Shaft; horse.	
"		"	Seales & Huff (local). Sugar Creek. Shaft, open pit, horse and hand.	
Ashersville		Clay	Black Coal Co., Brazil, Ind., No. 9. Shaft, open pit, steam. H. Payne, supt.	
Aysbire,		Pike	David Ingle, Oakland City, Ind., Cap. \$50,000. Aysbire. Slope, shaft, 30,000 tons, steam; breaker, washer, 74 coke ovens, John Jennings, supt.	
Bicknell		Knox	Bicknell Coal Co., Geo. W. Fuller, presd., J. M. Freeman, secy. and treas. Cap. stk., \$100,000. Bicknell. Shaft, steam. R. M. Freeman, supt.	
Blackburn Station		Pike	E. B. Posey, Evansville, Ind., 41 and 43 B. M. A. Bldg. Cap. \$10,000. Blackburn. Slope, 20,000 tons, steam; washer, 9 coke ovens, capacity 1,000 tons. J. D. Jarvis, supt.	
"		"	Posey Cooperative Mining Co., Emanuel Fair, presd., Eugene O'Brien, secy. and treas., Geo. Fortis, mgr. Cap. stk., \$20,000. Blackburn. Slope, 15,000 tons, steam.	
Boonville		Warriek	Lauder Wooley Coal Co., Evansville, Ind., E. P. Huston, presd., W. H. Merithen, secy. and treas. Cap. \$10,000. Lauder Wooley. Slope, 4,800 tons; steam. Robert Lauder, supt.	
"		"	W. W. Reynolds (local). Cap. \$200. Reynolds. Shaft, 1,400 tons, horse.	
"		"	F. Whitmer (local). Whitmer. Shaft, 500 tons, horse.	
Brazil		Clay	Brazil Black Coal Co., Chicago, Ill. Gartschire No. 1. Shaft, 60,000 tons, steam. Jas. McCord, supt.	
"		"	Brazil Black Coal Exchange, Chicago, Ill., The Ironbery. K. R. Brock, onbrough, presd. and treas., Charles R. Abbott, secy. Cap. stk., \$50,000. Morris. Shaft, 50,000 tons, steam. John Erzinger, supt.	
"		"	Centennial Coal Co., C. B. Reddie & Son, Cap. \$2,000. Centennial. Shaft, steam (developing).	
"		"	Crawford Coal Co., Terre Haute, Ind., 710 N. Second st. A. J. Crawford, presd.; J. P. Crawford, secy. and treas. Cap. stk., \$15,000. Crawford Nos. 2, 3 and 4. Shaft, 60,000 tons, steam. W. W. Rishew, mgr. and supt.	
"		"	Jackson Coal & Mining Co., M. A. Johnson, presd., D. W. Marshall, secy., M. H. Johnson, mgr. Cap. stk., \$40,000. Nickel Plate. Shaft, 60,000 tons, steam. W. S. Houston, supt.	
"		"	Nickel Plate Coal & Mining Co., M. A. Johnson, presd., W. S. Houston, secy., M. H. Johnson, mgr. Cap. stk., \$50,000. Chicago. Shaft, 60,000 tons, steam.	
"		"	Other Creek Coal Co., Daniel Corkery, presd., A. H. Zimmerman, secy., W. H. Zimmerman, treas. and gen. mgr. Cap. stk., \$30,000. Nellie. Shaft, 75,000 tons, steam. John Misset, supt.	
"		"	Schrepterman Coal Co., Schrepterman, presd. and treas., N. Schrepterman, secy., mgr. and supt. Cap. stk., \$20,000. Birch Creek. Shaft, 175 tons, steam, breaker.	
"		"	John Triplett. Slope, 15,000 tons.	
Cannelburg		Daviess	Mutual Mining Co., Daniel Davis, presd., James Nolan, secy., Martin Cahill, treas., mgr. and supt. Cap. stk., \$5,000, indy. cap., \$2,000. Mutual. Shaft, 17,500 tons, steam.	
Carlton		Clay	Lureka Black Coal Co., Chicago, Ill., 1,35 State st. A. H. Woodruff, presd., John Browder, secy. and supt., M. W. Browder, treas., Edward Wilton, mgr. Cap. stk., \$100,000. Banner. Shaft, 60,000 tons, steam.	
Carbondale,		Warren	John L. Carlson (local). Cap. \$2,000. Carlson. Slope, 605 tons, hand.	
Carlisle		Sullivan	Carlisle Coal Co., Geo. Ward, presd., Geo. Plupps, secy., M. Zetter, mgr. Cap. stk., \$10,000. Carlisle. Shaft, steam.	
Centre Point,		Clay	Weaver, Getz & Co., Chicago, Ill., 217 Dearborn st., Louise. Shaft, 175,000 tons, steam. Church Hill. Shaft, 200,000 tons, steam. Chas. W. Moss, supt.	
"		"	Williams & Givens, John L. Williams, presd., mgr. and supt., Alfred Connitt, secy., R. Givens, treas., Cap. \$2,000. Vandallia. Shaft, 2,000 tons, steam.	
Clay City		Clay	Chicago & Indiana Black Coal Co., Terre Haute, Ind., 553 Ohio st. J. Smith Talley, presd. and mgr., Leslie D. Thomas, secy., Dennis Dehning, treas. Cap. stk., \$200,000. Harrison. Shaft, 60,000 tons, steam, compressed air. Thomas Foulds, supt.	
"		"	Diamond Black Coal Co., Chicago, Ill., 159 La Salle st. John Andrew, presd., Charles F. Koeler, secy., treas. and mgr. Cap. stk., \$60,000. Diamond. Shaft, 150,000 tons; steam. Peter Andrew, supt.	
Clinton		Vermillion	Hazel Creek Coal Co., T. C. Keller, pre. t., N. G. Wright, secy., N. C. Anderson, treas. mgr. and supt. Cap. stk., \$30,000. Hazel Creek, Fern Hill. Slope, shaft, 20,000 tons.	
"		"	Norton Creek Coal Mining Co., Milwaukee, Wis., H. M. Benjamin, presd., H. S. Klem, secy., C. W. Moody, treas. and mgr. Cap. stk., \$50,000. Norton Creek, Clinton No. 3. Shaft, slope, drift, 200,000 tons, steam. Charles E. Walker, supt.	
"		"	Thompson Hill Mining Co., C. M. Dargatz, presd., Charles H. Merrill, treas. and supt. Cap. stk., \$50,000. Thompson Hill. Slope, 24,000 tons, steam.	
Coal Bluff		Vigo	Coal Bluff Mining Co., Terre Haute, Ind., 575 Ohio st. J. Smith Talley, presd., James W. Landrum, secy., L. D. Thomas, treas., R. W. Rippetoe, mgr. and supt. Cap. stk., \$15,000. Hercules and Star. Shafts, 75,000 tons, steam.	
"		"	Other Creek Mining Co., Cap. \$75,000. Other Creek. Slope, 55,000 tons, horse. Isaac Debo, supt.	
Coal City		Owen	Eagle Creek Mining Co., J. P. Hyatt, presd. and treas., J. F. Conley, secy. Cap. \$20,000. Eagle Creek. Shaft, 12,300 tons, steam. John Wells, mgr. and supt.	

COAL, BITUMINOUS. (CONTINUED.)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF FLOWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Coal City	Owen	J. F. Hyatt. Cap. \$10,000. Eagle Creek. Shaft, 15,000 tons; steam. Josiah Wells, supt.		
<i>(Continued.)</i>				
Coal Creek	Fontana	Samuel Bolony (local). Slope, 150 tons; horse.		
Ry. 253, 781.				
"	"	Randolph & McKinney. Cap. \$10,000. Sandhede. Slope, 4,800 tons; steam.		
Deo	Spencer	L. N. Mason (local). Cap. \$500. Mason. Shaft, 100 tons; hand.		
Ry. 402.				
"	"	J. R. Thorpe (local). Elmhill. Slope, 800 tons; hand.		
De Forest	Warren	D. A. De Forest and others. De Forest. Shaft, 90,000 tons; steam. Wm. Baum, supt.		
Ry. 402.				
Denmark	Owen	Langaster Block Coal Co., Terre Haute, Ind., 921 Wabash av. John Andrew, prest.; Robert Andrew, seey. and treas.; James Andrew, mgr. Cap. stk. \$150,000. Langaster. Shaft, 60,000 tons; steam. James E. Andrew, supt.		
Ry. Clay City 256.				
Dugger	Sullivan	Dugger Cooperative Mining Co., Arthur Davidson, prest.; Cory Littlefield, seey. and treas. Cap. stk. \$10,000. Shaft developing. J. E. Griffith, supt.		
Ry. 563.				
Epsilon	Daviess	Andrew McCall (local). Shaft; horse; steam.		
Ry. Phenixville 116.				
"	"	John Payne (local). Earth's. Slope; hand.		
Evansville	Vanderburg	Diamond Coal Mining Co., 20 Upper Fourth st., Louis Koester, prest.; treas. and mgr.; E. W. Samper, seey. Cap. stk. \$12,000. Diamond. Shaft, 30,000 tons; steam. Geo. Benschberger, supt.		
Ry. 256, 402, 498, 536.				
"	"	Evansville Cooperative Mining Co., V. M. C. A. Bldg. Wm. M. Madden, prest.; Sam Quinn, seey. and supt. Cap. stk. \$20,000. Cooperative. Shaft, 30,000 tons; steam.		
"	"	First Avenue Coal Mining Co., 224 Upper Third st., C. C. Thomas, prest. and mgr.; R. H. Kellogg, seey. and treas. Cap. stk. \$25,000. First Avenue. Shaft, 12,000 tons; steam. William Dicks, supt.		
"	"	John Ingels & Co., 210 Upper Second st., Geo. S. Ingels, mgr. Cap. \$75,000. Ingelside. Shaft, 75,000 tons; steam. Joseph Gibson, supt.		
"	"	Sunnyvale Coal & Coke Co., 127 Upper Third st., D. J. Mackey, prest.; F. P. Huston, seey. and treas.; John L. Woolley, mgr. Cap. stk. \$100,000. Sunnyvale. Shaft, 60,721 tons; steam. John L. Woolley, supt.		
Farmersburg	Sullivan	Farmersburg Coal & Mining Co., Sullivan, Ind., Blackford condit., prest. and treas.; Noah Crawford, seey.; mgr. and supt. Cap. stk. \$17,800. Farmersburg. Shaft, 22,000 tons; steam.		
Ry. 256.				
Fern	Sullivan	Hancock & Condel. Cap. \$15,000. Bender Bldg. Shaft, 8,170 tons; steam. W. H. Condel, supt.		
Ry. Linton 422.				
Fontana	Vigo	Coal Bluff Mining Co., Terre Haute, Ind., No. 325 Ohio st., J. Smith Lalley, prest.; James W. Landrum, seey.; E. D. Thomas, treas.; E. W. R. Pictone, mgr. and supt. Cap. stk. \$6,000. Edgar and Diamond. Shafts, 75,000 tons; steam.		
Ry. 146, 470.				
"	"	E. D. Davis. Cap. \$1,000. Penock. Slope, 30,000 tons; horse.		
"	"	Western Indiana Coal Co., Terre Haute, Ind., 52 Ohio st., J. Smith Lalley, prest.; Wm. T. Eppert, seey. and treas. and mgr. Cap. stk. \$25,000. Shaft; steam; developing. Jacob Lewis, supt.		
Grant Crossing	Vigo	McDonough & Kitzing Co., Staunton, Ind., C. J. McDonough, prest. and seey.; Geo. J. Kitzing, treas. and mgr. Cap. stk. \$75,000. Lone Star. Slope, 30,000 tons; horse. James Smith, supt.		
Ry. 146, 470.				
Hymers	Sullivan	Old Pittsburg Coal Co., Chicago, Ill., 411 and 413 LaSalle Bldg., James N. Buchanan, prest. and treas.; De Witt C. Butts, seey. Cap. stk. \$150,000. Harrison. Shaft, 175,000 tons; electricity. W. I. Monlock, supt.		
Ry. 146, 256.				
"	"	M. Stark. Cap. \$5,000. Little Pittsburg. Shaft, 18,000 tons; horse.		
Jasper	Dubois	Lockett, Wagner and others. Cap. \$10,000. Slope, 1,000 tons; horse.		
Ry. 402, 710.				
"	"	Wm. Haller, Haller. Slope, 150 tons; hand.		
Knightsville	Clay	E. H. Davis (local). D. H. Davis, prest.; Charles F. Matson, seey. and treas. Cap. stk. \$20,000. World's Fair. Shaft, 100,000 tons; steam. Joseph Matys, supt.		
Ry. Brazil 166, 400.				
"	"	Zeller & Sigler Coal & Mining Co., Wm. M. Zeller, prest. and mgr. and supt.; E. M. Sigler, seey.; C. M. Zeller, treas. Cap. stk. \$100,000. Columbia, Diamond, Vandalia. Shaft, 100,000 tons; steam.		
Lanesville	Spencer	Henry Schaner. Cap. \$1,500. Schaner. Shaft, 12,000 tons; steam. Geo. B. Bullock, mgr. and supt.		
Ry. 402.				
Linton	Greene	Island Coal Co., Indianapolis, Ind., 84 E. Market st., A. M. Ogley, prest.; W. W. Hubbard, seey. and treas.; F. R. Scott, V. prest. Cap. stk. \$100,000. Island City, Nos. 1, 2, 3. Shaft, 50,000 tons; comprises col. air. John Hewitt, supt.		
Ry. 322, 581.				
"	"	Island Valley Coal & Mining Co., Wm. H. Walton, prest. and supt.; Harman Furny, seey.; Wm. H. Graham, treas. Cap. stk. \$100,000. Island Valley. Shaft; steam; developing.		
"	"	Summit Coal Co., Bloomfield, Ind., F. M. Dugger, prest. and mgr.; J. C. Gilliland, seey.; H. I. Neal, treas. Cap. stk. \$50,000. Summit. Shaft, 5,700 tons; steam. John Lacey, supt.		
Little's	Pike	S. W. Little, Evansville, Ind., 29 Upper Third st., Cap. \$20,000. Little's. Shaft, 10,000 tons; steam; electricity.		
Ry. 256.				
Lyford	Parke	New Kentucky Coal Co., Chicago, Ill., 215 Dearborn st., P. D. Whitehead, prest.; M. H. Walker, V. prest.; Thos. J. Whitehead, seey. and treas. Cap. stk. \$100,000. Lyford. Shaft, 100,000 tons; steam.		
and Ry. Clinton 146.				
Linton	Sullivan	Linton Coal & Coke Co., Sullivan, Ind., W. H. Alley, prest.; F. H. Rice, seey.; M. B. Wilson, treas.; C. C. Richards, supt. Linton. Shaft, 60,000 tons; steam. B. D. Johnson, supt.		
P. O. Cass Ry. 422.				
Madisonville	Vigo	Pier Krynkeburger (local). W. H. L. (mgr. and supt.). Cap. \$1,000. Linton. Shaft, 7,500 tons; steam. James Hooker, supt.		
Ry. 718.				

COAL BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Mineral City Ky. 404, 408		Greene	Levi D. Burcham. Cap. \$100. Burcham. Tunnel, 400 tons; hand.	
"		"	M. Hildebrand. Cap. \$100. Hildebrand. Slope, pit, 100 tons; hand.	
"		"	J. M. Vest. Cushman. Tunnel, 200 tons; hand.	
Newburg Ky. 563, 563.		Warren	John Archbold, Evansville, Ind., cor. Bland av. and Walnut st. Star. Shaft, 24,000 tons; steam. George Archbold jr., supt.	
"		"	P. Ehrlich & Co., Indianapolis, Ind. Peter Ehrlich, prest.; Christ Ehrlich, treas. and supt. Cap. stk. \$75,000. Newburg. Shaft, 60,000 tons; steam, breaker	
"		"	Gartshore Coal & Mining Co., Isane McIntosh, receiver. Newburg No. 2. Shaft, 140,000 tons; steam.	
New Pittsburg, T. D. Mine Cave Ky. 145, 256.		Sullivan	New Pittsburg Coal & Coke Co., Chicago, Ill., 129 Dearborn st. D. M. Cummings, prest.; John R. Sier, secy., treas. and genl. mgr. Cap. stk. \$300,000. Phoenix. Shaft, 150,000 tons; steam, compressed air, washer, 40 ovens, capacity 12,000 tons. John P. Gilmore, supt.	
Oakland City Ky. 402		Gibson	Oakland City Coal Co., John S. Jeter, prest.; John D. Kell, secy. and treas. Wm. Cockrum, mgr. Cap. stk. \$4,000. Oakland City. Shaft, steam. James Dewey, supt.	
Perth Ky. Carbon 170		Clay	Coal Bluff Mining Co., Terre Haute, Ind., 325 Ohio st. J. Smith Talley, prest.; Jas. W. Landrum, secy.; L. D. Thomas, treas.; R. W. Rippetoe, mgr. and supt. Cap. stk. \$65,000. Anchor. Shafts, 7,300 tons; steam.	
"		"	Hoosier Coal Co., Chicago, Ill., 935 Rookery Bldg. Bernard Hamrod, prest. and mgr.; A. S. Bertoldt, secy. and treas. Cap. stk. \$20,000. Hoosier. Shaft, 50,000 tons; steam. W. W. Keeler, supt.	
Petersburg Ky. 256.		Pike	Read & Myers, cor. Walnut and Seventh sts., John Read, prest.; treas., mgr. and supt.; John Myers, secy. Cap. \$1,500. Johnny Posey. Shaft, 20,000 tons; horse.	
Pratt P. O. & Ky. Carbon 170.		Clay	Coal Bluff Mining Co., Terre Haute, Ind., 325 Ohio st. J. Smith Talley, prest.; Jas. W. Landrum, secy.; L. D. Thomas, treas.; R. W. Rippetoe, mgr. and supt. Cap. stk. \$65,000. Pratt. Shafts, 75,000 tons; steam.	
Riley Ky. 146.		Vigo	E. J. Gillespie. Cap. \$2,000. Forest Hill. Shaft, steam.	
Shelburn Ky. 256.		Sullivan	Currys-ville Coal Co., G. I. Grammer, prest.; I. H. Wooley, secy., treas. and supt. Cap. stk. \$50,000. Currys-ville. Shaft, 50,000 tons; steam, compressed air.	
"		"	Richmond & Halberstadt localy. McNally. Shaft, horse.	
"		"	Shelburn Coal Co., Geo. C. Richards, prest., mgr. and supt.; H. E. Bell, secy. and treas. Cap. stk. \$50,000. Shelburn. Shaft, 26,490 tons; steam.	
Silverwood Ky. 763.		Fountain	Shipman Coal Mining & Manufacturing Co., Detroit, Mich., No. 74 Griswold st. O. W. Shipman, prest.; W. C. Maybury, secy.; Francis E. Palmis, treas.; J. N. Dexter, mgr. and supt. Cap. stk. \$100,000. Shipman. Shaft, steam (developing).	
Stamton Ky. 748.		Clay	Earlich Co., Turner, Ind. Cap. \$25,000. Newbury. Shaft, 30,000 tons; steam. Christian Earlich, supt.	
"		"	John Kempt localy. Cap. \$100. Tunnel, 400 tons; hand.	
"		"	Joseph Somers. Cap. \$10,000. Jumbo, San Pedro. Shaft, open pit, 30,000 tons; steam.	
"		"	Joseph Whallon localy. Cap. \$500. Black Hills. Open pit, 500 tons; horse; hand.	
Troy, Ky. 402.		Perry	Bergenworth Bros. Cap. \$10,000. Troy. Shaft, 16,000 tons; steam. Samuel Priest, supt.	
Vincennes, Ky. 170, 256, 348.		Knox	Vincennes Coal Co., Job Freeman, prest., mgr. and supt.; C. G. Metcalf, secy. and treas. Cap. stk. \$10,000. Shaft; steam (developing).	
Washington Ky. 538.		Daviess	Cable & Co. Cap. \$50,000. M. Valley, Nos. 1, 6, 7. Shaft, 140,000 tons; steam. Joseph Small, supt.	
Williamsport Ky. 754.		Warren	John Carlson, Carbonate, Ind. localy. Carlson. Slope, 400 tons; hand.	
Winslow Ky. 402.		Pike	Phelps Bros. localy. Phelps. Open pit, hand.	
"		"	William Shaw localy. Shaw. Slope, 200 tons; horse.	
"		"	D. G. Smith localy. Hollow. Slope, 8 tons; hand.	
Worthington, Ky. 446.		Greene	A. M. Bucher localy. Bucher. Slope, 300 tons; hand.	
"		"	David S. Fulke localy. Slope, 300 tons; hand.	
"		"	George Heinemann localy. Heinemann. Slope, 20,000 tons; hand.	

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACE, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Bloomfield Ky. 404		Greene	Bloomfield Iron Ore Co., E. M. Dockett, prest.; John A. Pate, secy.; I. H. Jones, treas. Cap. stk. \$20,000. Red Hematite. Open pit, hand.	

KAOLIN

LOCATION OF MINE
OR QUARRY,
RAILWAYS, WATER ROUTES,
AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER
USED, ETC., AND NAME OF SUPERINTENDENT.

TOWN AND COUNTY.

Huron Lawrence Kaolin Mining Co., Chicago, Ill., 816 Chamber of Commerce, P. C. Hamilton, pres. and treas.; Henry P. Lowe, v. pres.; F. H. Hendrick, secy.; John M. Parham, mgr.; Cap. Stk. \$1,000,000. White Pearl kaolin. Tunnel, 5000 tons, horse, steam. Geo. D. Moss, supt.

LEAD AND ZINC

LOCATION OF MINE
OR QUARRY,
RAILWAYS, WATER ROUTES,
AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF
POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.

TOWN AND COUNTY.

Delphi Carroll Delphi Mineral Mining Co., Samuel L. Miltroy, pres.; Waldo W. Williams, secy.; James C. Blythe, treas.; Hiram Kerlin, v. pres.; Cap. Stk. \$3,000. Lead and zinc developing.

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE
OR QUARRY,
RAILWAYS, WATER ROUTES,
AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF
2,000 POUNDS, KIND OF POWER USED, KIND OF MATERIALS, DIMENSIONS AND
CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

TOWN AND COUNTY.

Bloomington Lawrence Aene Bedford Stone Co., Chicago, Ill., 576 S. Morgan st., John Rawle, pres. and mgr.; E. C. Bennett, secy. and treas.; Cap. Stk. \$100,000. Sandstone. Steam mill. J. J. Jones, supt.

" " Bedford Steam Stone Works, D. A. Johnson, pres. and mgr. and supt.; E. B. Thornton, secy. and treas.; Cap. Stk. \$10,000. Bedford, limestone. Open pit, 10,000 tons, steam, mill.

" " Bedford Stone Co., Indianapolis, Ind., 42 Thorpe Block, J. W. Chapman, pres.; E. H. Hall, secy. and treas.; Cap. Stk. \$150,000. Oolitic limestone. Shaft, open pit, 10,000 tons, steam, mill. H. H. Walls, supt.

" " Bedford Stone Quarries Co., C. D. Hank, pres.; W. C. Winstanley, secy. and treas.; S. B. Ayres, mgr.; Cap. Stk. \$1,000,000. Oolitic limestone. Open pit, 10,000 tons, steam, mill. J. E. Evans, supt.

" " Bodenschütz Bedford Stone Co., Chicago, Ill., 110 The Rookery, N. A. Bodenschütz, pres.; E. H. Brown, secy.; J. G. Bodenschütz, treas.; Cap. Stk. \$20,000. Bodenschütz, oolitic limestone. Open pit, 4,500 tons, steam, mill. A. M. Brown, supt.

" " Chicago & Bedford Stone Co., James Kinnard, pres.; J. F. Thornton, secy.; E. A. Thornton, mgr.; Cap. Stk. \$100,000. Blue Hole, oolitic limestone. Open pit, 15,000 tons, steam. W. O. Troy, supt.

" " Columbia Lithographic Stone & Cement Co., Chicago, Ill., 60 Dearborn st., Suite 40, Joseph H. Hooper, pres.; E. T. Smith, secy. and treas.; Cap. Stk. \$200,000. Columbia, lithographic stone. Open, steam.

" " Elmer & Norton Stone Co., Cap. Stk. \$100,000. Oolitic limestone. Steam.

" " Dark Hollow Oolitic Stone Co., M. A. Blatz, pres.; E. B. Thornton, secy. and mgr. and supt.; Cap. Stk. \$20,000. Limestone. Open pit, 15,000 tons, steam.

" " Dark Hollow Quarry Co., Louisville, Ky., Fifth and Market sts., Charles R. Pringle, pres.; Wm. Bennecke, secy.; Wm. E. Johnson, treas.; Cap. Stk. \$200,000. Dark Hollow, oolitic limestone. Open pit, 60,000 tons, steam, mill. Clinton S. Norton, supt.

" " Hollowed Stone Co., John R. Doyle, mgr. Limestone. Steam, mill.

" " Indiana Stone Co., J. W. Newland, pres.; C. C. Davis, secy. and mgr.; M. N. Messick, treas.; Cap. Stk. \$155,000. Indiana, limestone. Open pit, 100,000 tons, steam, mill.

" " Peerless Stone Co., W. C. Winstanley, pres.; J. G. Fink, secy.; Bedford Bank, treas.; Lycurgus Ball, mgr.; Cap. Stk. \$100,000. Peerless, oolitic limestone. Open pit, 18,000 tons, steam, mill. Robert McKinley, supt.

" " Perry, Matthews & Biskirk, William N. Matthews, mgr.; Cap. \$75,000. Oolitic limestone. Open pit, 30,000 tons, steam. John Torphy, supt.

" " Salem Bedford Stone Co., Louisville, Ky., 42 Main st., R. A. Robinson, pres.; John L. Wheat, secy.; John A. Carter, treas.; Dexter Belknap, mgr.; Cap. Stk. \$200,000. Bedford, oolitic limestone. Open pit, 2,000 tons, steam, mill. Wm. Roberts, supt.

" " West Bedford Stone Co., Albert Lindke, pres.; Frank Knobl, secy. and treas.; Cap. Stk. \$75,000. West Bedford, oolitic stone. Open pit, steam. Peter Fillion, supt.

Bloomington Monroe Bloomington Oolitic Limestone Co., William Smart, pres.; James B. Mulky, secy.; James B. Clark, treas.; John W. Shoemaker, mgr.; Cap. Stk. \$300,000. Bloomington, limestone. Open pit, 4,000 tons, steam, mill.

" " Hunter Stone Co., First National Bank Bldg., W. F. Rogers, pres. and mgr.; J. H. Louden, secy.; W. N. Showers, treas.; Cap. Stk. \$50,000. Hunter, oolitic limestone. Open pit, 15,000 tons, steam, mill. H. Henley, supt.

" " Monroe County Oolitic Stone Co., R. F. Adams sr., pres.; W. H. Adams, secy. and mgr.; R. F. Adams jr., treas.; Cap. Stk. \$100,000. Limestone. Open pit, 10,000 tons, steam.

" " North Bedford Stone Co., W. H. McKnight, pres.; R. A. McGee, secy. and mgr. and supt.; M. J. C. Mahan, treas.; Cap. Stk. \$150,000. North Bedford, oolitic limestone. Mill.

Charlestown Clark Indiana Cement Co., Jeffersonville, Ind., 14 Spring st., Ward H. Watson, pres.; Thomas B. Rader, secy.; John B. Sharp, treas.; Isaac N. Haymaker, mgr.; Cap. Stk. \$50,000. Stone. Open pit, steam, cement mill, 100,000 lbs., Emmet Long, supt.

Clay City Clay Beryl Gault, Cap. \$1,000. Clay City Pottery, potters' clay. Open pit, steam.

STONE, MARBLE, GRANITE AND ONYX (CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Clear Creek Ry. 404.		Monroe	Bloomington Bedford Stone Co., Chicago, Ill., Room 67 Major Block, 112 La Salle st., John A. Henry, pres., Wm. C. Shaw, secy. and treas., Cap. stk. \$100,000. Bedford stone, 1,800 tons, steam mill, Robert Emery, supt.	
Ellettsville Ry. 494.		Monroe	Matthews Bros., Fred Matthews, mgr., Cap. stk. \$50,000. Matthews, limestone. Open pit, 30,000 tons; steam, horse, hand; mill.	
"		"	Perry Bros., Cap. \$50,000. Perry, oolite limestone. Open pit, 20,000 tons; steam and horse; 2 mills.	
Engene Ry. 446, 763.		Vernon	Vernonville Sandstone Co., Danville, Ill., E. C. Hodges, pres., A. W. Heintz, secy., S. J. McKee, treas., Cap. stk. \$100,000. Sandstone, mill.	
French Lick Ry. 404.		Orange	The Pike Mfg. Co., Pike Station, N. H., E. B. Pike, pres. and mgr.; F. M. Tucker, secy. and treas., Cap. stk. \$50,000. Pike, fine and coarse sandstone.	
"		"	H. E. Wells & Co., Cap. stk. \$20,000. Moore, Hindostan stone. Open pit, 40 tons; horse, hand; mill.	
Georgia Ry. Mitchell 404, 538.		Lawrence	J. A. Chailion & Bros., Cap. \$5,000. Hindostan oil stone. Open pit, 50 tons; mill.	
"		"	"	
" Ry. Orleans 404.		"	The Pike Mfg. Co., Pike Station, N. H., E. B. Pike, pres. and mgr., F. M. Tucker, secy. and treas., Cap. stk. \$50,000. Pike, fine and coarse sandstone.	
Greensburg Decatur Ry. 167, 170.		Greensburg	Greensburg Limestone Co., H. H. Wooley, pres.; S. E. Eward, secy. and treas., Cap. stk. \$18,755. Greensburg, limestone. Open pit, 10,000 tons; steam and horse.	
Harper Ry. Sardinia Crossing 170, 256.		Decatur	Boecourt & Son, John Boecourt, pres.; C. F. Boecourt, secy., Cap. stk. \$2,000. Boecourt, limestone. Open pit, hand, steam.	
Holtz Ry. 738.		Ripley	Ed Cox., Indiana, fine and flagging stone. Open pit, 6,000 tons; hand.	
Huron Ry. 538.		Lawrence	John J. Kirk., Cap. \$1,500. Steve Jones, Hindostan oil stone or water stone. Open pit, 40 tons; steam; mill.	
"		"	The Pike Mfg. Co., Pike Station, N. H., E. B. Pike, pres. and mgr., F. M. Tucker, secy. and treas., Cap. stk. \$50,000. Pike, fine and coarse sandstone.	
Laurel Ry. 170.		Franklin	M. E. Seccrest., Cap. \$20,000. Laurel, limestone. Open pit, 10,000 tons; horse.	
Manfield Ry. Carbon 170.		Parke	Parke County Brown Stone Co., Chicago, Ill., 21 Kialto Bldg., Parke County, brown and red sandstone. Open pit, 12,000 tons; steam, horse, hand. O. R. Reynolds, supt.	
Markle Ry. 503.		Huntington	F. A. Brickley., Cap. \$2,000. Brickley, limestone. Open pit, 4,000 tons. F. A. Brickley, supt.	
Mitchell Ry. 404, 538.		Lawrence	Big Four Lime Co., E. P. Eversole, pres. and treas., J. D. Moore, secy. and mgr., Cap. \$10,000. Limestone, 3,000 tons; hand; kiln, 10,000 tons.	
North Bedford P. O., Bloomington Ry. 543.		Monroe	Big Creek Stone Co., Bloomington, Ind., Geo. W. Battenbacher, pres. and mgr.; R. C. Greeves, secy. and treas., Cap. stk. \$100,000. Big Creek, oolite limestone. Open pit, 6,000 tons; steam, stonemill, W. H. Cox, supt.	
Osgood Ry. 538.		Ripley	A. B. Ashman & Co., Cincinnati, Ohio, S. W. Cox, Ninth and John sts., A. B. Ashman, pres.; George Ashman, secy.; Alfred L. Ashman, treas. and supt., Cap. stk. \$100,000. Osgood, limestone. Open pit, 10,000 tons; steam.	
Paoli Ry. 170, 404.		Orange	T. N. Braxter & Sons, oil stones. Open pit.	
"		"	John Jones., Braxton, sandstone. Open pit, 500 tons; hand.	
"		"	Wm. F. Osborn., Cap. \$2,500. Hindostan and sand stone. Open pit, 45 tons; hand, horse.	
"		"	The Pike Mfg. Co., Pike Station, N. H., E. B. Pike, pres. and mgr., F. M. Tucker, secy. and treas., Cap. stk. \$50,000. Pike, fine and coarse sandstone.	
River Side Ry. Independence 784		Fountain	Guyer, Barclay & Co., Cap. \$18,000. Riverside, sandstone. Open pit, 10,000 tons; horse. R. H. Guyer, supt.	
Romona Ry. 763		Owen	Oolite Quarry Co., Spencer, Ind., Charles Lilly, pres.; C. H. Miller, secy. and treas., Oolite limestone.	
"		"	Oolite Stone & Lime Co., Ira H. Pauley, pres. and mgr.; D. W. Jones, secy. and treas., Cap. stk. \$15,000. Oolite limestone, 10,000 tons; steam, mill; limekiln, 5,000 tons. G. A. Bennett, supt.	
"		"	Pauley & Whitely., Cap. \$10,000. Owen, oolite limestone. Open pit, 10,000 tons; steam, stonemill; limekiln, 1,500 tons. I. H. Pauley, supt.	
"		"	Romona Oolite Stone Co., Indianapolis, Ind., 15 Ingham Block, H. Bates, pres.; H. Bates Jr., secy. and treas., Walter Kessler, mgr., Cap. stk. \$20,000. Mill Creek, oolite limestone. Open pit, 30,000 tons; steam, mill.	
Salem Ry. 401.		Washington	Salem Bedford Stone Co., Louisville, Ky., 421 Main st., R. A. Ashman, pres.; John L. Wheat, secy.; John A. Carter, treas.; Dexter Bednap, mgr., Cap. stk. \$200,000. Salem, limestone. Open pit, 2,000 tons; steam, mill, 5 kilns. Wm. Roberts, supt.	
Smithville Ry. Clear Creek 404.		Monroe	Oolite Stone Co., Bedford, Ind., Cap. stk. \$100,000. Limestone. Open pit, 25,000 tons; steam. John Chambers, supt.	
"		"	Thomlison Stone Co., Chicago, Ill., Room 44, 189 La Salle st., John Thomlison sr., pres.; John Thomlison jr., secy. and treas., and mgr., Cap. stk. \$100,000. Thomlison, oolite limestone. 25,000 tons; steam, mill. Harry Pelt, supt.	
Spencer Ry. 736.		Owen	Spencer Lime & Rubble Quarry Co., O. T. Dickerson, pres.; T. H. Boswell, secy. and treas.; Tom Robinson, mgr., Cap. stk. \$5,000. Spencer, rubble, riprap, 7,500 tons; steam, mill.	
Stinesville Ry. North Bedford 564.		Monroe	Big Creek Stone Co., Bloomington, Ind., Geo. W. Battenbacher, pres. and mgr.; R. C. Greeves, secy. and treas., Cap. stk. \$100,000. Big Creek, oolite limestone. Open pit, 10,000 tons; steam, mill, W. H. Cox, supt.	

STONE, MARBLE, GRANITE AND ONYX—(CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERICKS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT
TOWN AND COUNTY.	
Stinesville (Continued.)	Monroe
"	"
Turner Ry. Newburg 565.	Chay
West Baden Ry. 404.	Orange
Westport Ry. 256.	Decatur
Williamsport, Ry. 784.	Warrick

SEE ALSO SUPPLEMENTARY LIST

INDIAN TERRITORY
COAL BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Ardmore Ry. 26.	Chickasaw
Coalgate Ry. 214.	Choctaw
Hartshorne Ry. 429, 720.	Choctaw
Lehigh Ry. 459.	Choctaw
McAloster Ry. 459.	Choctaw
Scottdale P. O. Jensen, Ark Ry. 720.	Choctaw

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT
TOWN AND COUNTY.	
Ardmore Ry. Wynnewood 26.	Chickasaw

SEE ALSO SUPPLEMENTARY LIST

IOWA

COAL—BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Albia	...	Monroe	Enterprise Coal Co., O. Brown, mgr., Cap. \$80,000.	Enterprise. Shaft, steam. T. J. Lewis, supt.
"	"	"	Iowa & Wisconsin Coal Co., J. D. McMillan, pres., Cecil R. Anderson, secy., R. Dewhurst, treas.; J. H. White, mgr. and supt., Cap. stk. \$40,000.	Jack Oak. Shaft, 75,000 tons; steam.
Angus	"	Boone	Angus Coal Co., S. Sheppard, secy. and treas.; J. Ramsay, mgr., Cap. stk. \$10,000.	Angus. Shaft, 200,000 tons.
"	"	"	Craig Coal Co., Ft. Dodge, Iowa, A. F. Guthrie, pres., W. Walton, secy., Cap. stk. \$100,000.	Shaft, 35,000 tons; steam. J. Dawson, mgr. and supt.
Avery	"	Monroe	Lone Hollow Mining Co., John F. Cook, pres., Cap. \$15,000.	Lone Hollow. Slope, 8,000 tons; horse. G. C. Cook, supt.
"	"	"	Smoky Hollow Coal Mine, John Z. Evans, propr., Cap. \$57,000.	Smoky Hollow. Slope, 165,000 tons; steam. F. Hynes, supt.
Bayard	"	Guthrie	Doodittle, Elwood & Duddy (local), Cap. \$1,500.	Standard. Drift, 107 tons; horse.
Beacon	"	Mahaska	Beacon Coal Co., S. Phillips, pres. & treas. and mgr., S. Phillips jr., secy., Slope, 30,000 tons; steam.	
"	"	"	Garfield Coal Co., Oskaloosa, Iowa, R. Ramsay, pres., B. Wightman, secy. and treas., Cap. stk. \$80,000.	Slope, drift, steam. J. H. Ramsay, supt.
"	"	"	Oskaloosa Coal & Mining Co., Oskaloosa, Iowa, E. H. Gibbs, pres., W. A. Seever, treas., Cap. stk. \$100,000.	Shaft, 200,000 tons; steam. John Ramsay, supt.
Belknap	"	O'avis	Warren J. Graham (local), Soap Creek.	Slope; horse.
Blakesburg	"	Wapello	Phillips Fuel Co., Ottumwa, Iowa, Ira Phillips, pres.; Henry Phillips, secy., E. L. Kilby, treas., Cap. stk. \$200,000.	Shaft, slope, 25,000 tons; steam, electricity. Wm. Foulkes, supt.
Boone	"	Boone	Milford Coal Co., John Birmingham, pres. and secy.; John Keating, treas., mgr. and supt., Cap. stk. \$40,000.	indiv. cap. \$20,000. Milford. 200,000 tons; steam.
Boonesboro	"	Boone	W. D. Johnson & Co. Coal Co., W. D. Johnson, pres., T. N. Canfield, secy., treas. and mgr., Cap. stk. \$2,000.	Johnson's No. 2. Shaft, 4500 tons; steam. C. Logan, supt.
"	"	"	Riverside Coal Co., James Weir, mgr., Cap. stk. \$25,000.	Shaft, 1,200 tons; horse.
"	"	"	Rogers & Craw, Cap. \$2,000.	Shaft, 21,500 tons; steam. Wm. Craw, supt.
Brazil	"	Appanoose	Brazil Coal & Mining Co., B. E. Silkutter, mgr., Drift, 50,000 tons; horse.	
"	"	"	Phillips Fuel Co., Ottumwa, Iowa, Ira Phillips, pres.; Henry Phillips, secy., E. L. Kilby, treas., Cap. stk. \$200,000.	Shaft, slope, 25,000 tons; steam, electricity. Wm. Foulkes, supt.
"	"	"	Phoeny Coal Co., Council Bluffs, Iowa, Rooms 224 and 25 Merrim Block, Joseph Turner, pres., mgr. and supt., John Freese, secy. and treas., Cap. stk. \$10,000.	Phoeny. Slope, 10,000 tons; horse.
Buffalo	"	Scott	C. G. Rowan, Cap. \$7,000.	Pennsylvania No. 2. Shaft, 2,000 tons; horse.
"	"	"	Thomas Webster, Iron Dollar.	Shaft, 1,240 tons; horse.
Carlton	"	Adams	Wm. Charles (local), Cap. \$250.	Remby. Shaft, 80 tons; horse.
"	"	"	Gibbie Bros., Cap. \$700.	Gibbie. Shaft, 3,000 tons; horse. T. Gibbie, mgr. and supt.
"	"	"	Gibson & Co. (local), Cap. \$1,000.	No. 2. Shaft, 2,200 tons; horse. J. W. Gibson, supt.
"	"	"	Wm. Ruth & Co., Cap. \$1,000.	Ruth. Shaft, 30,000 tons; hand. Wm. Ruth, supt.
Carbonado	"	Mahaska	Excelsior Coal Co., Oskaloosa, Ia., Cap. stk. \$500,000.	Shafts Nos. 4 and 5. Shafts, 300,000 tons; steam. B. Wightman, supt.
"	"	"	Andrew Love (local), Cap. \$300.	Slope, 2,500 tons; horse.
Cedar Mines	"	Monroe	Cheago & Iowa Coal Co., Chicago, Ill., 1006 Home Insurance Bldg., L. L. Coburn, pres., Alfred Cowles, secy. and treas., Cap. stk. \$150,000.	Cedar. Shaft, 75,000 tons; steam. W. P. Jones, supt.
Centerville	"	Appanoose	Anchor Coal Co., J. M. Biddle, pres., T. R. Riggs, secy., James Wilson, treas. and mgr., Cap. stk. \$8,000.	Anchor. Shaft, 15,000 tons; horse.
"	"	"	Diamond Coal Co., W. W. Oliver, pres., C. W. Lane, secy. and treas., Cap. stk. \$60,000.	Diamond. Shaft, 10,000 tons; steam, compressed air. Alex. Dargavell, supt.
"	"	"	Eldon Coal & Mining Co., Ottumwa, Iowa, 102 Market st., W. E. Baum, pres.; George P. Baum, secy., treas. and mgr., Cap. stk. \$50,000.	Eldon No. 2. Shaft, 25,000 tons; John Morris, supt.
"	"	"	Happy Coal Co., C. Erikson, pres. and supt., G. Olson, secy., A. P. Anderson, treas., Andrew Burkhard, mgr., Cap. stk. \$5,000.	Happy. Shaft, 100 tons; horse.
"	"	"	Monitor Coal Co., D. A. Crawford, pres., A. D. Crawford, secy. and mgr., Cap. stk. \$10,000.	Shaft, 6,000 tons; horse. Geo. Helman, supt.
"	"	"	Raney & Co., Cap. \$8,000.	No. 3. Shaft, 8,000 tons; steam. John Raney, supt.
"	"	"	Scandinavian Coal Co., Charles Burkhard, pres.; Claus Johnson, secy., C. A. Stanton, treas., T. J. Greene, mgr. and supt., Cap. stk. \$15,000.	Scandinavian. Shaft, steam.
Chariton	"	Lucas	Thomas H. Smith (local), Cap. \$1,000.	Little White Breast. Tunnel, 674 tons; hand.

COAL BITUMINOUS—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE DRIVERS, AND NAME OF MINE SUPERINTENDENT.		
TOWNS	AND	COUNTY			
Chicago		Montrose	Whitebreast Fuel Co., Chicago, Ill., 919 Rookery Bldg., J. C. Osgood, pres't., C. L. Phelps, secy., G. W. Traer, treas., T. J. Phillips, mgt., Cap. stk. \$1,000,000. No. 10. Shaft, 38,968 tons, steam. R. O. Rosser, supt.		
Cincinnati		Appanoose	Appanoose Coal Co., J. N. Marsh, pres't., treas. and mgt., T. S. Marsh, secy., Cap. stk. \$20,000. Shaft, 36,000 tons, steam. D. H. Morrison, supt.		
"		"	Cincinnati Coal Co., J. C. McDonald, pres't. and treas., G. W. Coffin, secy. and mgt., Cap. stk. \$10,000. Cincinnati. Shaft, 50,000 tons, horse.		
Coalfield		Montrose	A. B. Little, Oskaloosa, Iowa. Black Diamond. Slope, 200 tons, steam.		
Conville		Webster	L. Rhodes & Co., Rhodes. Open pit, 80 tons, hand.		
Coffey		Jasper	Jasper County Coal Co., T. H. Goetz, pres't., Geo. A. Goodrich, secy., treas. and mgt., Cap. stk. \$60,000. Jasper County. Shaft, 40,000 tons, steam. D. S. Condit, supt.		
Commerce		Polk	Thomas D. Hahne, Cap. \$3000. Commerce. Shaft, 1,000 tons, horse. Samuel Dale, supt.		
Confidence		Wayne	Frye Bros., Cap. \$1,500. Frye. Shaft, 500 tons, steam. H. E. Frye, mgt.		
"		"	William Roussau, local. Cap. \$200. Roussau. Slope, 80 tons, hand.		
Corv		Keokuk	North Star Coal Co., John Rettig, secy. and treas., John Farly, mgt., Cap. stk. \$20,000. Shaft, 45,000 tons, steam.		
Darby		Appanoose	Darby Coal Co., W. R. Williams, pres't., J. F. Richards, secy., W. F. Helmer, treas. and mgt., Cap. stk. \$50,000. Darby. Shaft, 20,000 tons, steam. A. B. Stahl, supt.		
Dawson		Dallas	Dawson Coal Co., Cap. stk. \$20,000. Shaft, steam.		
Dean		Appanoose	Patrick Gorman. Gorman. Slope, 80 tons, hand.		
Des Moines		Polk	Bloomfield Coal & Mining Co., 40 E. Walnut st., John Wilson, pres't., A. A. Nelson, secy., Charles S. Worthing, treas., mgt. and supt., Cap. stk. \$2,000. Bloomfield. Shaft, 10,000 tons, steam.		
"		"	Campfield Coal & Mining Co., 11 E. Sixth st., J. G. Haskins, pres't., Henry F. Garver, secy., treas. and mgt., Cap. stk. \$10,000. Campfield. Shaft, steam developing. David Ayl, supt.		
"		"	Christy Coal Co., Room 9 Chipp Block, J. M. Christy, pres't. and mgt., C. L. Hemmaway, secy. and treas., Cap. stk. \$2,000. Christy. Shaft, 70,000 tons, steam. James T. Short, supt.		
"		"	Coon Valley Coal Co., Seventh and Mulberry sts., J. D. Stockton, pres't., J. Whitney Ross, secy., Geo. W. Blaney, treas., Thomas Beck, mgt., Cap. stk. \$50,000. Coon Valley. Shaft, 25,000 tons, steam. Thomas Bates, supt.		
"		"	Furka Fuel Co., 611 W. Locust st., W. F. Brown, pres't., C. J. Carlson, secy. and supt., J. A. Brown, treas. and mgt., Cap. \$10,000. Furka. Shaft, 11,000 tons, steam.		
"		"	Maple Grove Coal & Mining Co., 705 E. Sixth st., W. F. Garrison, pres't. and secy., A. W. Carlson, treas., Cap. stk. \$20,000. Maple Grove. Shaft, 75,000 tons, steam. C. A. Swinson, supt.		
"		"	Proctor Coal Co., cor. Third and Locust sts., D. Proctor, pres't., L. Proctor, secy., Cap. \$10,000. Proctor. Shaft, 30,000 tons, steam. W. Folger, supt.		
"		"	Vanginkel Coal Co., First and Court avs., G. Vanginkel, pres't. and treas., G. C. Vanginkel, secy., W. E. Marsh, mgt., Vanginkel. Shaft, 20,000 tons, steam. Chas. Vanginkel, supt.		
Douglas Station		Van Buren	Carson & Walker. Slope, 3,000 tons, horse. Matthew Walker, supt.		
"		"	G. W. Findley. Cap. \$5,000. Business corner. Slope, 12,000 tons, horse.		
Dunreath		Marion	Black Diamond Coal & Mining Co., Des Moines, Iowa, 212 W. Seventh st., Frank Brandt, pres't., C. D. Boardman, secy., J. C. May, treas. and mgt., Cap. stk. \$100,000. Black Diamond. Slope, 16,000 tons, steam. Wm. Robinson, supt.		
Elton		Wapello	A. L. Dotson, local. Dotson. Tunnel, 800 tons, hand.		
"		"	Eli Dye, Cap. \$3,000. Salt Creek. Open, 1,000 tons, hand.		
Evans		Mahaska	American Coal Co., Oskaloosa, Iowa. H. W. McNeill, pres't., Wm. L. Phillips, secy., James F. McNeill, treas., W. A. McNeill, mgt., Cap. stk. \$20,000. No. 2. Slope, 17,500 tons, steam. R. L. Wilson, supt.		
Fairfield		Jefferson	G. W. Bates, local. Cap. \$500. Cedar Hill. Shaft, 750 tons, horse.		
"		"	John Williamson, local. Slope, 120 tons.		
Fanslers		Guthrie	P. Renslow, local. Cap. \$1,000. Renslow. Shaft, 800 tons, horse.		
Farmington		Van Buren	Farmington Coal & Mining Co., James Carr, pres't., mgt. and supt., Frank D. Carr, secy., C. W. Sherrill, treas., Cap. stk. \$20,000. Farm. Shaft, slope, 10,000 tons, horse.		
Flagers		Marion	S. R. Rollings, lessee. Oak Hill. Slope, 12,000 tons, horse.		
Forbush		Appanoose	Whitebreast Fuel Co., Chicago, Ill., 919 Rookery Bldg., J. C. Osgood, pres't., C. L. Phelps, secy., G. W. Traer, treas., T. J. Phillips, mgt., Cap. stk. \$1,000,000. No. 10. Shaft, 38,721 tons, steam. J. H. H. land, supt.		
Fort Dodge		Webster	Albert Stine. Cap. \$125. Slope, 400 tons, horse.		

COAL-BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHES, CORE OVEN, AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Foster, Ry. 141.		Monroe	Deep Vein Coal Co., Cedar Rapids, Iowa. E. L. Foster, pres. and treas.; C. H. Fugle, secy. and supt. Cap. stk. \$200,000. Shaft, slope, 100,000 tons; steam.	
"		"	Monroe Coal & Prospecting Co., A. McCoy, pres.; B. F. Fritchle, secy. and mgr.; F. P. Hank, treas. Cap. stk. \$2,500. Shaft; horse.	
Fredrie, Ry. 135.		Monroe	Charles Akers. Cap. \$2,000. Shaft, 4,000 tons; horse.	
Givin, Ry. 142, 327, 584.		Mahaska	C. Alexander. Cap. \$1,000. Givin. Slope, 10,000 tons; horse.	
"		"	Chilton Bros. Cap. \$6,000. Chilton. Slope, 500 tons; hand. Arthur Chilton, supt.	
Guthrie Centre Ry. 142.		Guthrie	Guthrie Centre Coal Co. H. K. Dewey, pres.; J. D. Brown, secy.; Ed. Dash, treas. Cap. stk. \$5,000 (developing).	
Hamilton Ry. 135, 147.		Marion	Bondind Bros. Cap. \$5,000. Hamilton. Slope, 32,000 tons; steam. G. A. Bondinot, supt.	
"		"	Geo. C. Davis. Cap. \$5,000. Davis. Shaft, 8,000 tons; horse.	
Harvard, Ry. 143.		Wayne	James A. Winger. Cap. \$10,000. Happy Hollow. Shaft, 5,400 tons; horse.	
Hickory Ry. 327.		Monroe	Hickory Coal Co. C. C. Cox, pres.; C. N. Bloomfield, secy. and treas. Cap. \$7,000. Hickory. Shaft, 30,000 tons; steam. Wm. Jamison, mgr. and supt.	
Hillsboro Ry. 147.		Henry	David Cox. Cap. \$300. Hillsboro. Tunnel, 100 tons; hand.	
Hitean Ry. 135.		Monroe	Wapello Coal Co. J. C. Pensley, pres.; H. E. Jarvis, secy.; S. A. Corey, treas.; H. L. Waterman, mgr. Cap. stk. \$750,000. Shaft, 250,000 tons; steam. J. W. Brown, supt.	
Jamaica Ry. 141.		Guthrie	Simon & Sons. G. W. Simon, secy.; J. H. Wallace, treas.; W. D. Simon, mgr. and supt. Cap. stk. \$10,000. Greenbrier. Shaft, 6,000 tons; horse, steam.	
Jerome Ry. 141.		Appanoose	Gladstone Coal Co. Joseph Goss, pres.; Peter Marsden, secy. and treas.; Robert Marsden, mgr. and supt. Cap. stk. \$5,000. Gladstone. Shaft, 12,000 tons; steam.	
Kalo Ry. 456.		Webster	E. Johnson (local). 175 tons.	
"		"	Porter & Bird. Tunnel, 10,000 tons; hand. James Porter, supt.	
Keo Ry. 135.		Wapello	Whitebreast Fuel Co., Chicago, Ill. 940 Rookery Bldg. J. C. Osgood, pres.; C. E. Phelps, secy.; G. W. Truer, treas.; T. J. Phillips, mgr. Cap. stk. \$1,200,000. No. 22. Shaft, 129,167 tons; steam. J. Lake jr., supt.	
Kirkville Ry. 142.		Wapello	E. A. Waddell (local). Waddell. Shaft, 20 tons; horse.	
Knoxville Ry. 142.		Marion	S. M. Buckman. Buckman. Slope, 750 tons; horse.	
"		"	S. L. Collins Coal and Mining Co. S. L. Collins, pres.; Lyle S. Collins, secy., treas. and mgr. Cap. stk. \$5,000. No. 3. Shaft.	
"		"	Wm. Lewis. Cap. \$3,000. Lewis. Shaft, 2,500 tons; horse.	
"		"	W. O. Robinson (local). Slope, 2,400 tons; horse.	
Ladysdale Ry. 142.		Davis	Eldon Coal & Mining Co., Ottumwa, Iowa, 102 Market st. W. R. Damm, pres.; Geo. F. Damm, secy., treas. and mgr. Cap. stk. \$50,000. No. 1. Shaft, 50,000 tons; steam. Samuel Smith, supt.	
Lehigh Ry. 425, 591.		Webster	Corey Coal Co. Frank Corey, mgr. Cap. \$6,000. Corey, No. 1. Slope, 2,000 tons; steam. Rees Stephens, supt.	
"		"	S. W. Corey. Cap. \$2,000. Corey. Slope, 5,000 tons; horse. John Davenport, supt.	
"		"	Crooked Creek R. R. & Coal Co. W. C. Willson, pres.; J. M. Funk, secy. and treas.; Samuel McClure, gen. mgr. Cap. stk. \$225,000. Crooked Creek. Shaft, slope, 17,165 tons; steam, horse. John Ham- ilton, supt.	
"		"	W. H. & S. McClure. Cap. \$10,000. Black Diamond. Slope, \$222 tons; horse. D. W. Townley, supt.	
"		"	S. V. Smith. Cap. \$2,000. Smith. Shaft, 1,000 tons; horse.	
Leighton Ry. 142.		Mahaska	M. B. Foster, Des Moines, Iowa, Room 509 Iowa Loan & Trust Bldg. H. A. Foster, mgr. Cap. \$25,000. Leighton. Shaft, 30,000 tons; steam. R. T. Montgomery, supt.	
Libertyville Ry. Collett 145.		Jefferson	A. J. Zimmerman (local). Cap. \$1,500. Lack Creek. Slope, 2,400 tons; horse.	
Lockridge Ry. 145.		Jefferson	M. D. Brown. Cap. \$6,000. Cord Port. Shaft, 6,000 tons; horse.	
Marxville Ry. Hamilton 145.		Marion	John Yenser. Cap. \$300. Yenser. Open pit, 1,500 tons; horse.	
Millchapelville Ry. McIntosh 145.		Appanoose	Fenton & Bros. (local). Shaft, 1,500 tons; horse.	
Milo Ry. 145.		Warren	N. D. Bales (local). Bales. Shaft, 200 tons; horse.	
"		"	S. C. Bryant. Cap. \$2,000. Bryant. Shaft, 3,000 tons; horse.	
Montgoma Ry. 130.		Boone	John Peacock. Cap. \$1,500. Scottish Chief. Shaft, 1,621 tons; horse.	
Monroe Ry. 142.		Jasper	R. D. Marshall (local). Marshall. Slope, 300 tons; hand.	
Montgomery Ry. 784.		Marion	Midland Coal Co., Des Moines, Iowa. F. M. Hubble, pres.; J. M. Martin, secy. and treas.; A. W. Austin, mgr. Cap. stk. \$3,000,000. Midland. Slope, shaft, 10,000 tons; steam. J. W. Miller, supt.	

COAL—BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Mystic Ry. 141.	Appanoose		Clarkdale Coal Co., John Clark, pres.; Geo. Clark, secy.; James Clark, treas.; Alex. Clark, mgt. and supt. Cap. stk. \$25,000. Clarkdale. Shaft, 4,200 tons, horse.	
"	"	"	Iowa & Missouri Coal & Mining Co., Kansas City, Mo., 201 and 204 N. Y. Life Bldg.; Elijah Gates, pres.; John H. Owens, secy. and treas.; C. C. Coff, mgt. Cap. stk. \$1,500,000. Clarkdale. Shaft, steam. Thomas Woodson, supt.	
"	"	"	Lodwick Bros., Cap. stk. \$10,000. Lodwick. Drift, slope, 20,000 tons, horse. T. L. Lodwick, supt.	
"	"	"	Mystic Coal & Mining Co., James A. Seddon, pres.; secy. and treas.; Wm. Harris, mgt. Cap. stk. \$8,000. Slope, 30,000 tons, horse.	
"	"	"	Orr Bros., Cap. stk. \$25,000. Pittsburg. Slope, shaft, 30,000 tons, steam, horse.	
"	"	"	Phillips Fuel Co., Ottumwa, Iowa. Ira Phillips, pres.; Henry Phillips, secy.; T. L. Kirby, treas. Cap. stk. \$20,000. Shaft, slope, 25,000 tons, steam, electricity. Wm. Tonkes, supt.	
"	"	"	Raven Coal Co., W. F. Vermilion, pres.; A. A. Highberger, secy. mgt. and supt. C. W. Vermilion, treas. Cap. stk. \$15,000. Raven. Slope, horse.	
"	"	"	R. F. Silkmitter, Cap. \$5,000. Mystic. Drift, 75,000 tons, horse. Walter Cowles, supt.	
New Market Ry. 306.	Taylor		Benjamin Anderson & Sons, Cap. \$5,000. Anderson's. Shaft, 7,000 tons, horse.	
"	"	"	Campbell & Sons, Cap. \$2,000. Bean. Shaft, 4,500 tons, horse. R. Campbell, mgt. and supt.	
Newton Ry. 142, 327.	Jasper		Carson Bros., Cap. \$2,000. Shaft, 2,000 tons, steam. Robert Carson, supt.	
"	"	"	Newton Coal Co., A. Murdoch, pres.; Bayard Conn, secy.; J. Murdoch, treas. Wm. Conn, mgt. and supt. Cap. stk. \$8,000. Newton. Shaft, 9,000 tons, steam, horse.	
Oskaloosa Ry. 89, 142, 327.	Mathaska		H. F. Evans & Co., Cap. \$5,000. Shaft, 30,000 tons, steam. R. F. Evans, supt.	
"	"	"	S. C. Guthrie, Cap. \$5,000. Guthrie. Shaft, 6,000 tons, steam. J. D. Guthrie, supt.	
"	"	"	Iowa Fuel Co., cor. Market and High sts. W. H. Seavers, pres.; D. R. Fleming, secy. C. E. Lofland, treas.; F. C. Smith, mgt. and supt. Cap. stk. \$75,000. Iowa No. 1. Shaft, steam.	
"	"	"	Long Bros., Cap. \$1,000. Shaft, 1,000 tons, steam. Thomas Long, supt.	
Oswalt Ry. Valerius 155, 158.	Jasper		Diagonal Coal Co., St. Paul, Minn.; Metropolitan Opera House Bldg.; Raymond D. Fox, pres. and treas.; Robert L. Wright, secy.; C. G. Koth, 2nd mgt. and supt. Cap. stk. \$20,000. Diagonal. Shaft, 15,000 tons, steam.	
Olney Ry. 112.	Marion		Marion County Coal Co., Des Moines, Iowa. H. A. Foster, pres. and mgt. Cap. \$10,000. Olney. Shaft, 10,000 tons, steam. R. Fraser, supt.	
Ottumwa Ry. 135, 141, 142, 784.	Wapello		Burch Bros., South Ottumwa, 107 1/2 Church st. local. Cap. \$3,000. Pickwick. Shaft, 15,000 tons, horse. I. D. Burch, supt.	
"	"	"	Hawkeye Coal & Mining Co., 11. Market st. A. C. Coughlan, pres.; J. R. Burgess, secy.; T. D. Lant, treas. Hawkeye. Shaft, 3,000 tons, steam. C. W. Grant, supt.	
"	"	"	Phillips Fuel Co., Ira Phillips, pres.; Henry Phillips, secy. T. L. Kirby, treas. Cap. stk. \$20,000. Phillips No. 2. Shaft, 25,000 tons, shaft. Wm. Tonkes, supt.	
"	"	"	Van Gent & Dixon, 50 E. Main st. local. Cap. \$5,000. Shaft, 5,000 tons, steam. R. H. Dixon, supt.	
Pekay Ry. 327.	Mathaska		Whitebreast Fuel Co., Chicago, Ill. 940 Rookery Bldg.; J. C. Osgood, pres.; C. J. Phillips, secy.; C. W. Pratt, treas. J. J. Phillips, mgt. Cap. stk. \$1,000,000. No. 28. Shaft, 3,000 tons, steam. John I. Phillips, supt.	
Pella Ry. 142.	Marion		J. M. Markham & Sons, Cap. \$7,500. Markham, Keystone. Shaft, 1,200 tons.	
"	"	"	Lewis Woodyard, Chrisman. Shaft, 2,000 tons. Lewis Woodyard, supt.	
Redfield Ry. 219.	Pollak		Bott & Bros., Cloud. Slope, 15,000 tons, horse. Thomas E. Bott, supt.	
Red Rock E. O. Monroe Ry. 142, 784.	Marion		Hugh McNeish, Cap. \$5,000. Liberty Corner. Shaft, 1,000 tons, horse.	
Rose Hill Ry. 142.	Mathaska		Carvey Bros., Cap. \$3,000. Bacon. Shaft, 1,200 tons, horse. M. Carvey, mgt. and supt.	
Rumricks Ry. 784.	Polk		Acme Coal Co., Des Moines, Iowa, 914 W. Walnut st.; J. R. Nelson, pres.; S. W. Gieseler, secy. and treas.; J. A. Lath, mgt. and supt. Cap. stk. \$25,000. Acme. Slope, 1,000 tons, horse.	
"	"	"	Madison Coal Co., C. M. Hubbard, pres.; T. M. Martin, secy. and treas.; A. W. A. St. Paul, mgt. and supt. \$20,000. Madison. Shaft, 10,000 tons, steam. J. W. M. St. Paul, supt.	
Seamont Ry. 142, 141.	Wayne		Chicago Coal Co., Chicago, Ill. 135 Adams st.; D. C. DeWitt, pres.; A. C. A. Allen, secy. and treas.; J. M. Varney, mgt. Cap. stk. \$25,000. Chicago. Shaft, 10,000 tons, steam. F. C. F. Jones, supt.	
"	"	"	Symons Coal Co., Seymour, Shaft, 10,000 tons, steam. George E. Jones, supt.	
Shambaugh Ry. Clearmont, Mo. 142.	Page		Turner & Fulk, Cap. \$3,000. Shambaugh. Shaft, 5,000 tons, horse. W. H. Fulk, supt.	
Sigourney Ry. 141, 142.	Keokuk		B. Ronely, local. Cap. \$12,000. Sigourney. Shaft, 7,000 tons, horse.	
Summerset Ry. 142.	Warren		D. K. Jones, Jones. Shaft, 2,000 tons, horse.	
Superior Mines P. O. and Ry. Rose Hill 142.	Mathaska		Superior Coal Co., Oskaloosa, Ia. 1400 S. S. W. cap. coal. Cap. \$10,000. Superior. Shaft, 1,000 tons, horse.	
Taney Ry. 142.	Marion		S. Hollowell, local. Hollowell. Slope, 1,000 tons, horse.	

COAL BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Tracy,	Marion		Samuel Ream (local). Cap. \$2,500. Cedar. Open pit, 240 tons; hand.	
(Continued.)				
Van Meter,	Dallas		Chicago & Van Meter Coal & Mining Co., Ft. Dodge, Iowa, 501 W. Market st. James L. Platt, pres., treas. and mgr.; R. B. Berryhill, secy. Cap. stk. \$100,000. No. 1. Shaft, 30,000 tons; steam. F. A. White, supt.	
What Cheer	Kookuk		Armstrong Coal Co. Joel Stewart, pres.; Sam Gillroy, secy. and treas.; W. B. Armstrong, mgr. Cap. stk. \$40,000. Armstrong. Shaft, 82,784 tons; steam. John Donovan, supt.	
Ry. 87, 130,			William Blatt. Black Diamond. Shaft, 1,000 tons; horse.	
"	"		Carl & Irvin Bros. Joseph Irvin, pres.; Fred Carl, secy., mgr. and supt. W. Irvin, treas. Cap. stk. \$5,800. Shaft, 3,000 tons; steam.	
"	"		Crescent Coal Co. Andrew Langdon, pres.; J. S. Chipman, secy. and treas.; S. W. White, mgr. Cap. stk. \$50,000. Crescent, Nos. 1 and 2. Shaft, 127,487 tons; steam, electricity. Martin Coleman, supt.	
"	"		Keystone Coal Co. S. P. Pascoe, pres. and treas.; J. J. Pascoe, secy., mgr. and supt. Cap. stk. \$30,000. Keystone. Slope, 6,240 tons; horse.	
"	"		Morgan & Garland. "Q" Mine. Slope, 300 tons; horse.	
"	"		What Cheer Coal Co. E. N. Saunders, pres. and treas.; G. A. Wheeler, secy. Shaft, 125,000 tons; steam, compressed air. E. M. Trescott, supt.	
Zenithville,	Brown		Hutchison Bros. & Son. James Hutchison, pres.; R. B. Hutchison, secy. and treas.; John Hutchison, mgr. Cap. \$10,000. No. 1. Shaft, 7,875 tons; horse. W. C. Hutchison, supt.	
Ry. Gilbert Sta. 130,				

GYPSUM

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Fort Dodge	Webster		Iowa Plaster Association. L. Blonden, pres.; G. S. Ringland, v. pres.; Leon Vincent, secy. Open pit; steam.	
Ry. 142, 319,	"		Duncombe Stucco Co. John F. Duncombe, pres.; C. F. Duncombe, secy., treas. and mgr. Cap. stk. \$50,000. Open pit, 15,000 tons; steam, mill. Patrick Cahill, foreman.	

LEAD AND ZINC

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMelters, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Dubuque	Dubuque		E. T. Goldthorp & Co., 363 Alta Vista st. N. H. Snow, pres.; W. A. Jones, secy. and treas.; E. T. Goldthorp, mgr. and supt. Dubuque, zinc. Shaft, 1,000 tons; horse.	
Ry. 141, 319,	"		Trinch, Southwell & Co., 363 Alta Vista st. J. Trinch, pres.; S. Southwell, secy.; A. Trinch, treas.; E. T. Goldthorp, mgr. and supt. Cap. stk. \$10,000. Alpine Blossom, zinc, lead. Shaft, 2,000 tons; horse.	

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERILLS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Mason City	Cerro Gordo		Mason City Stone Co. Adin Randall, pres.; W. F. Randall, secy. and mgr. O. T. Denison, treas. Cap. stk. \$6,000. Mason City, sand and limestone. Open pits, steam.	
Ry. 141, 327, 423				
Stone City	Jones		H. Dearborn & Sons. Stone City, limestone. Open pit, 500 tons; steam and horse. H. Dearborn, supt.	
Ry. 141				

SEE ALSO SUPPLEMENTARY LIST

KANSAS

COAL-BITUMINOUS

TOWN	AND	COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAMES AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
Arcadia,	Ry. 348,	Crawford	G. W. Campbell. Cap. \$1,000. Campbell's. Open pit, slope, 6,000 tons, hand.
"	" "	"	Wm. Dinsmore local. Bunker Hill. Strip.
Arvonia,	Ry. Lebo 26,	Osage	W. J. Jeremy local. Open pit, 200 tons.
"	" "	"	Eess Lewis local. Cap. \$150. Lewis. Tunnel, 100 tons, hand.
"	" "	"	Morris & Behl local. Open pit, 300 tons.
"	" "	"	Mrs. H. Understock local. Open pit and tunnel, 125 tons, hand.
Azua,	P. O. Woodland Ry. 409,	Bourbon	H. McCorkle. Cap. \$1,000. McCorkle. Open pit 300 tons, hand, horse.
Bayne,	Ry. Lincoln 776,	Lincoln	N. B. Allen local. Cap. \$3,000. Ingalls. Shaft, 1,000 tons, horse.
Bunker Hill	Ry. 776,	Russell	Joseph Menzier. Menzier. Open pit, 1,200 tons; hand.
Burlingame	Ry. 26,	Osage	Eliza Armstrong. Cap. \$5,000. Boss. Shaft, 6,000 tons; horse. W. Foster, supt.
"	" "	"	Central Coal & Mining Co. Cap. stk. \$7,000. Central. Shaft, hand. Alfred F. Cole, supt.
"	" "	"	Jack s Coal & Mining co., John D. Jack, mgr. Cap. stk. \$1,000. Burke's, 1,000 tons, horse, hand.
"	" "	"	Sarah Mings. Cap. \$1,000. Central. Open pit, hand. Alfred E. Cole, supt.
"	" "	"	Richard Underwood. Cap. \$1,000. Lutoka. Shaft, 300 tons, horse.
Carbondale	Ry. 26, 335,	Osage	D. P. Clement. Cap. \$5,000. Clement s. Open pit, slope, 1,000 tons, horse.
"	" "	"	John Collins local. Open pit, 600 tons, hand.
"	" "	"	H. J. Hartman local. Cap. 500. Hartman. Open, 200 tons, horse.
"	" "	"	F. N. Thomas, Carbon Hill, Kan. Cap. \$1,000. Eagle. Slope, 1,200 tons, horse.
"	" "	"	Wm. H. Thomas. Cap. \$1,200. Excelsior. Shaft, 500 tons, horse.
Center	P. O. and Ry. Bunker Hill 776,	Russell	N. E. Warner local. Cap. 800. Spring Creek. Slope, 70 tons, hand.
Cherokee	Ry. 348, 409,	Crawford	H. Germain. Cap. \$10,000. Open pits, 6,000 tons, horse.
Chetopa	Ry. 459, 460,	Lafayette	J. A. Yardon local. Cap. \$50. Triett. Open pit, 100 tons, horse.
Clarksburg	Ry. 348,	Bourbon	John Bishop local. Open pit, 50 tons, horse, hand.
Codyvale	Ry. 348,	Crawford	Bell & Co. Bell. Pratt, hand. J. W. Davenport, supt.
Columbus	Ry. 348, 720,	Cherokee	George Robinson. Robinson. Shaft, 1,000 tons, horse.
Denmark	Ry. Lincoln 776,	Lincoln	Mike Morris local. Baseman's. Shaft, hand.
"	" "	"	W. R. Smith local. Cap. \$5,000. J. A. L. Shaft, 500 tons, horse.
Fleming	Ry. 409,	Crawford	Western Coal & Mining Co. Supt. Louis McLaughlin and Ernest St. Lawrence local. West. D. S. H. George sary, and trass. E. M. McPherson a guest and m. t. Cap. stks. \$1,000,000. 1 engine, 1 mill and 1 shaft and slope, 160,000 tons, steam, down hill, no pit.
Fort Scott	Ry. 348, 409,	Bourbon	Newton Chase local. Open pit, 100 tons, hand.
"	" "	"	Francis Terrell & Sons. Cap. \$20,000. Fort Scott. Tunnel, open pit, 500 tons, hand, horse. J. W. Terrell supt.
"	" "	"	Thomas Hill local. Hill. Open pit, 50 tons, horse.
"	" "	"	Win. Freeman local. Deaton. Open pit, horse, hand.
Frontenac	Ry. 26,	Crawford	Cherokee Coal & Mining Co. Local, Kan. A. Mayfield pres.; F. W. C. Travers chief. J. DeVlin, mgt. Shaft, 200,000 tons, steam. Robt. I. Hotelke, supt.
Garland	Ry. 348,	Bourbon	G. W. Pellett local. Cap. \$500. Pellett s. Open pit, 1,200 tons.
Godfrey	Ry. 348,	Bourbon	X. D. Curtis local. Open pit, hand.
Lansing	Ry. 26, 348, 409, 776,	Kansas State Penitentiary	Geo. H. Case. Carpen. Penitentiary. Shaft, 200,000 tons, steam, 100 ft. long. 50 ft. deep. Oscar F. Launing, supt.
Leavenworth	Ry. 26, 144, 145, 48, 409,	Home Mining Co.	H. U. Rush, pres.; C. S. Harbaugh, sec'y; W. C. Spivey, gen'l. ag't; Geo. S. McGee, and supt. Cap. stks. \$100,000. Home. Shaft, 200,000 tons, steam.

COAL—BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Leavenworth	Leavenworth	Leavenworth	Leavenworth Coal Co., north end of Second st., Lucien Scott, prest.; THIR Sinks, secy.; J. E. Carr, treas., mgr. and supt. Cap. stk. \$300,000. Leavenworth, Shaft, 120,000 tons, steam, electricity, rope.	
Lebo	Colley	John Bodstadt, Open pit, 600 tons; horse.		
Ry. 26				
"	"	Hugh Jones (local), Open pit, 600 tons.		
"	"	W. M. Plunney, Open pit, 240 tons; horse, hand.		
"	"	Geo. Reid (local), Tunnels, 5,000 tons; hand.		
"	"	W. A. Richardson, Cap. \$2,785, Red Flag, Open pit; horse.		
"	"	Louis Schuhle, Open pit, 800 tons, horse.		
"	"	J. R. Woodworth, Cap. \$2,000, White Star, Open pit, 3,000 tons; horse, hand.		
Lincoln	Lincoln	Ben Goode & Sons (local), Cap. \$1,000, Shaft, 200 tons, horse.		
Ry. 776,				
Litchfield	Crawford	Kansas & Texas Coal Co., St. Louis, Mo., Fourth and Olive sts., Laclede Bldg., B. F. Hobart, prest.; W. P. Heath, secy. and treas., Shaft, open pit, steam, D. Ramsey, supt.		
Ry. 729,				
McIntire	Crawford	W. Hantsinger (local), Cap. \$3,000, Hantsinger, Open pit, 1,300 tons, horse, hand.		
Ry. 448,				
Midway	Crawford	Pittsburg & Midway Coal Co., E. H. Brown, prest. and mgr.; John T. Morrison, secy. and treas. Cap. stk. \$200,000, Mines 1, 2 and 3, Shafts, 106,300 tons, steam, J. T. Morrison, supt.		
Ry. 348, 400, 720,				
Minersville	Cloud	Alexander Henderson, Shafts, 5,000 tons; horse.		
Ry. 4 Concordia 26, 88,				
400, 776,				
"	"	T. P. Kirk & Hoy, Cap. \$3,000, Murray, Slope, 2,000 tons; horse, J. Gushaway, supt.		
"	"	William Weitzel, Cap. \$1,000, Minersville, Shaft, 2,000 tons; horse.		
Orchard	Linn	T. W. Gage (local), Cap. \$1,000, Harrison, Shaft, 2,000 tons; horse.		
P. O. and Ry. Lat 220				
348,				
Osage City	Osage	Black Diamond Coal Co., Cap. stk. \$5,000, Shaft, 11,000 tons; horse, J. M. Hershey, supt. and mgr.		
Ry. 26, 400,				
"	"	Win. Lounsberry (local), Fulton, Kan., Open pit and shaft, 1,000 tons, hand.		
"	"	Osage Carbon Co., Topeka, Kan., A. Maxwell, prest.; E. Wilder, secy. and treas.; C. J. Devlin, mgr. No. 2, Shafts, 77,014 tons; horse, Robt. Craig, supt.		
"	"	Pittsburg Coal, Land & Mining Co., W. T. Williams, prest., E. E. Dome, secy., Cap. stk. \$10,000, Pittsburg, Shaft, 6,000 tons; horse, John Ogram, supt.		
"	"	L. Baker, Cap. \$5,000, Oswego, Pit, 800 tons; horse.		
Pawnee Station	Bourbon	G. F. Lamquest, Open pit, 1,000 tons; horse, hand.		
Ry. 348,				
Peterton	Osage	Win. Fletcher (local), Open pit, hand.		
Ry. 26,				
"	"	N. C. Standiford, Cap. \$1,000, Farmer's, Open pit, 700 tons; horse, hand.		
Pittsburg	Crawford	Kansas & Texas Coal Co., St. Louis, Mo., Fourth and Olive sts., Laclede Bldg., B. F. Hobart, prest., W. P. Heath, secy. and treas., Shaft and open pit, steam, D. Ramsey, supt.		
Ry. 26, 348, 400, 720,				
"	"	Mimel & Co., cor. Third and Broadway, W. B. Callhoun, mgr. Cap. stk. \$25,000, New York, Shaft, 30,000 tons, steam, J. H. Mimel, supt.		
"	"	Montgomery & Sheets, Cap. \$1,000, Open pit, 1,200 tons, hand, David Ramsey, supt.		
"	"	C. L. Stotts & Co. (local), Butler, Open pit, 30 tons.		
"	"	Wear Coal Co., Topeka, Kan., 110 W. Sixth st., F. E. Wear, prest., T. G. Wear, v.-prest., N. S. Wear, secy., Cap. stk. \$50,000, Shaft, 15,000 tons, steam, A. B. Kirkwood, supt.		
"	"	Wear Coal Co., Topeka, Kan., 110 W. Sixth st., F. E. Wear, prest., T. G. Wear, v.-prest., N. S. Wear, secy., Cap. stk. \$50,000, No. 2, Shaft, 120,000 tons, steam.		
Pleasanton	Linn	Mine Creek Coal Co., Thos. Fleming, prest. and treas.; I. M. Fleming, secy. and mgr., Cap. stk. \$50,000, No. 1, Shaft, 15,576 tons, steam, Hugh Reid, supt.		
Ry. 48, 400,				
"	"	Pleasanton Coal Co., Alfred Blaker, prest., W. W. McCullough, secy. and treas., A. L. Humphrey, mgr., Cap. stk. \$10,000, Pleasanton No. 1, Shaft, 10,000 tons, steam.		
"	"	Thomas Station, Open pit, 2,500 tons, hand.		
Pomona	Franklin	Dyer & Graves, Cap. \$500, Dyer, Tunnel, 2,500 tons, hand, F. E. Dyer, supt.		
Ry. 2, 400,				
"	"	Paynter & Chaffland Coal Co., Cap. \$5,000, Pomona, Shaft, tunnel, steam, compressed air, J. P. Paynter, supt.		
Prescott	Linn	Edwin S. Belaney, Cap. \$7,000, Lank, Open pit, 4,000 tons; horse.		
Ry. 78,				
"	"	J. C. Billings, Cap. \$5,000, Billings, Open pit, 500 tons; horse.		
"	"	John Brown sr., Cap. \$200, Brown's, Open pit, 2,000 tons; horse, hand.		
"	"	J. T. Durkin (local), Open pit, 300 tons.		
"	"	J. J. Ham, Cap. \$200, Ham, Open pit, 2,500 tons; horse, Elmer Ham, supt.		
Quincy	Osage	John Boyde (local), Osage, Shafts, horse, Pat. Ryan, supt.		
Ry. 36, 400,				

COAL—BITUMINOUS (CONTINUED).

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Quenemo,	Osage	A. S. Mason (local). Cap. \$300. Drift, hand.		
<i>(Continued.)</i>				
Quindaro,	Wyandotte	Sunflower Coal & Mining Co., Kansas City, Mo., 706 Wall st. John F. Carr, pres., and supt., R. H. Stewart, secy., W. J. E. Carr, treas., J. Oswald Clarke, mgr. Cap. stk. \$150,000. Sunflower, shaft, 300,000 tons, steam.		
Ransomville,	Franklin	Cables & Bro., Ransom. Tunnel, 3,000 tons, hand. George Cable, supt.		
Ry, 26,	"	Ransom & Sims. Cap. \$3,000. Ransomville. Shaft, 12,000 tons, horse. James Sims, supt.		
Russell,	Russell	L. D. Smith & Co. (local). Smith. Shaft, 200 tons, horse.		
Ry, 776,	"	"		
Seamons,	Cherokee	Keith & Perry Coal Co., Kansas City, Mo., 90 Walnut st. R. H. Keith, pres. F. E. Riley, secy., David Mackie sr., treas. and supt., John Perry, v. pres. and mgr. Cap. stk. \$800,000. Keith & Perry. Shafts, 150,000 tons, steam.		
Ry, 348, 720,	"	"		
"	"	"		
"	"	"		
Seamons,	Cherokee	Norton Coal Co., Baxter Springs, Kan. W. S. Norton, pres. and mgr. F. R. Pattysen, secy., M. E. Norton, treas., Cap. \$30,000. Norton. No. 2. Shaft, 60,000 tons, steam. John Zimmerman, supt.		
Ry, 26,	Osage	Bell Bros. Cap. \$10,000. Bell's. Shaft, 15,000 tons, horse. Duncun Bell, supt.		
"	"	"		
"	"	Osage Carbon Co., Topeka, Kan. A. Manvel, pres.; F. Widdet, secy. and treas. C. J. Devlin, mgr. No. 1. Shafts, 55,500 tons, horse. Robt. Craig, supt.		
"	"	"		
"	"	P. Ryan & Co. P. Ryan, treas., John Hoodham, mgr. Cap. stk. \$9,000. Shaft, 7,000 tons, horse. Thos. Elwood, supt.		
Sherman City,	Cherokee	Wm. Theobald (local). Cap. \$2,000. Shaft, 100 tons, horse.		
Ry, Columbus 348, 720,	"	"		
Silver Lake,	Shawnee	Wm. H. Forbes & Co. Wm. H. Forbes, pres.; R. M. Forbes, secy. and supt.; J. H. Forbes, treas. Robt. Forbes, mgr. Cap. \$70,000. Silver Lake. Shaft, 11,000 tons, horse.		
Ry, 776,	"	"		
Stippville,	Cherokee	Columbus Coal Co. F. P. Anderson, pres.; J. W. Spangler, secy. and mgr.; F. L. Trotter, treas. Cap. stk. \$10,000. No. 2. Shaft, 47,312 tons, steam. C. Newlands, supt.		
P. O. and Ry, Colum- bus 36, 348,	"	"		
Waverly,	Colfax	A. P. Inghman (local). Open pit, 20 tons, horse.		
Ry, 26, 60,	"	"		
Wear,	Cherokee	Central Coal Co. Cap. \$15,000. Davis. Shaft, 60,000 tons, steam. Jas. Dennis, mgr. and supt.		
Ry, 348, 720	"	"		
"	"	J. H. Durkee Coal Co., Fort Scott, Kan. J. A. Durkee, pres.; J. H. Durkee, secy., treas. and mgr. Cap. stk. \$5,000. surplus \$20,000. Wear. No. 1. Shafts, slopes, 120,000 tons, steam. Joseph Humble, supt.		
"	"	"		
"	"	Kansas & Texas Coal Co., St. Louis, Mo. Fourth and others sts., Embury Bldg. B. L. Hobart, pres.; W. P. Heath, secy. and treas. Shaft, open pit, steam. D. Ransay, supt.		
"	"	"		
"	"	Keith & Perry Coal Co., Kansas City, Mo., 90 Walnut st. R. H. Keith, pres.; F. E. Riley, secy., David Mackie sr., treas. and supt., John Perry, v. pres. and mgr. Cap. stk. \$800,000. Keith & Perry. Shafts, 300,000 tons, steam.		
Williamsburg,	Franklin	T. Brown. Open pit, 400 tons, horse.		
Ry, 26,	"	"		
"	"	Franklin Coal Co., Coal Creek. Drift, 30,000 tons, hand.		
"	"	"		
"	"	J. L. Morgan (local). Morgan. Tunnel, 100 tons, hand.		
"	"	"		
"	"	Pearson & Alexander. Shaft, open pit, 400 tons, horse. F. O. Pearson, supt.		
"	"	"		
"	"	Priest & Ratchab. (local). Tunnel, 12 tons.		
"	"	"		
"	"	W. H. Young. Open pit, 60 tons, horse.		

GYPSUM.

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Big Rapids,	Marshall	Big Rapids Plaster Co., J. M. Taylor, pres.; H. G. Taylor, secy., Treas. and mgr. Cap. \$150,000. Tunnel, 9,000 tons, horse, hand, and. W. H. Bell, supt.		
Ry, 609, 770	"	"		
Dublin,	Dickinson	Saline Cement Plaster Co., Salina, Kan. M. J. Wells, pres. and supt.; M. M. Jones, secy.; F. J. H. Quinn, secy.; F. J. Gehlert, treas. Cap. \$15,000. Output, 100,000 tons, steam. W. M. Ross, supt.		
Ry, SWAYNE 600,	"	"		
Gypsum,	Saline	Arche Cement Plaster Co., Salina, Kan. W. W. Watson, pres. and supt.; F. J. Gehlert, secy.; F. J. H. Quinn, secy.; M. J. Wells, treas. Cap. \$15,000. Output, 175,000 tons, steam. W. M. Ross, supt.		
Ry, 600,	"	"		
Madison Lodge,	Barber	Best Bros. & Co., Hopkins. Best, mgr. and supt. Cap. \$25,000. Output, 175,000 tons, steam. W. M. Ross, supt.		
Ry, 26,	"	"		

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN	AND	COUNTY.	
Galeana		Cherokee	Cornwall Mining & Smelting Co., J. P. Kleinfeld, prest.; J. A. Wallbert, secy. and supt. Cap. stk. \$30,000.
Ry. 348, 720.			Cornwall. Shaft, 400 tons; ore; steam, horse.
"		"	Empire Mining Co., Jas. Murphy, (Jesse), Empire City, Kan. Cap. \$32,000. Galeana. Shaft, 1,002 tons; steam.

LEAD AND ZINC

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN	AND	COUNTY.	
Galeana		Cherokee	Annie Laurie Mining Co., St. Louis, Mo., Broadway and Locust. John F. Shepley, prest.; C. A. Cunningham, secy. and treas.; Green Lauford, mgr. and supt. Cap. stk. \$8,000. Annie Laurie, lead and zinc. Shaft, 604 tons; steam.
Ry. 348, 720.			
"		"	Boice & Son. Cap. \$15,000. Lead and zinc. 1,500 tons; steam, horse, breakers. J. H. Boice, supt.
"		"	Boughten, Forman & Buck. Geo. H. Boughten, prest.; F. H. Boughten, secy.; Gordon Boughten, treas. and supt.; Paul Hopeman, mgr. Cap. stk. \$10,000. Schermerhorn, Big Six, Crystal, lead and zinc. Shaft, 2,800 tons; steam, horse.
"		"	Central Mining Co., Main and First sts. W. R. Cowley, prest.; E. S. Morton, secy.; John Page, treas.; A. E. Matland, mgr. and supt. Cap. stk. \$15,000. Lead and zinc. 685 tons; steam, horse.
"		"	Clement Mining Co., Joplin, Mo. W. W. P. Clement, prest.; John P. McCann, secy.; Thos. Conner, treas.; D. S. Brewster, mgr. Cap. stk. \$24,000. Clement, lead and zinc. 2,715 tons; steam. W. F. Phillips, supt.
"		"	John M. Cooper Mining & Milling Co., John M. Cooper, prest.; E. B. Schermerhorn, secy., treas. and mgr. Cap. stk. \$100,000. Shaft, 1,371 tons; steam, horse.
"		"	Cooper & Schermerhorn. Cap. \$100,000. Lead and zinc. Shaft, 1,205 tons; steam, horse.
"		"	Robert Crowe. E. J. Tutty, mgr. Cap. \$5,000. Crowe, galena. 2,500 tons; steam.
"		"	Al Emmons & Bro. Cap. \$8,000. Lead, zinc. 3,000 tons; horse, steam.
"		"	Galeana Lead & Zinc Co., E. Zelleken, prest.; A. C. Spring, secy.; John Henrieks, treas.; Peter Rice, mgr. and supt. Cap. stk. \$175,000. Galeana, lead and zinc. Shaft, steam, horse, hand.
"		"	Maggie Taylor Mining & Smelting Co., P. W. Perkins, prest.; A. H. Hunt, secy.; C. O. Stockslager, treas.; J. A. Wallbert, mgr. and supt. Cap. stk. \$30,000. Maggie Taylor, galena. Shaft, 251 tons; horse, steam.
"		"	Mall Reed Paint Co., C. L. Mall, prest. treas. and mgr.; F. Weber, secy. Cap. stk. \$12,500. Mall Reed, lead and zinc. Shaft, 55 tons; steam, horse. C. L. Mall, supt.
"		"	Ohio Lead & Zinc Mining Co., B. Cooley, prest. and mgr.; K. J. Cooley, secy. and treas. Cap. stk. \$20,000. Shaft, 20,000 tons; steam, horse.
"		"	Queen Bee Mining Co., Alex. Walkenshaw, mgr. and supt. Queen Bee, lead and zinc. Shaft, steam.
"		"	Shenango Mining Co., Joplin, Mo. Alfred Blocker, prest.; O. H. Fisher, secy.; Phil. J. Fleming, mgr. Cap. stk. \$25,000. Shaft, 2,000 tons; hand, steam. N. U. Wilson, supt.
"		"	South Side Mining & Manufacturing Co., W. B. Stone, prest.; W. H. D. Brown, secy.; W. F. Stice, treas.; Thos. Moonlight, mgr. and supt. Cap. stk. \$500,000. Lead and zinc. Shaft, 10,500 tons; steam, horse.
"		"	W. B. Stone. Cap. \$25,000. Homestake, galena. Shaft, 2,151 tons; steam. Robt. O'Hare, supt.
"		"	W. B. Stone & Howard Grove. Cap. stk. \$25,000. Palmer Tract, lead and zinc. Shaft, steam. W. A. Stone, supt.
"		"	Williams & Robeson. Cap. \$10,000. Zinc, lead. Shaft, 100 tons; steam.
"		"	Wyandotte Lead & Zinc Co., F. S. Boice, prest.; L. J. Haines, secy.; E. B. Schermerhorn, treas.; J. H. Boice, mgr. Cap. stk. \$25,000. Wyandotte, lead and zinc. Shaft, 1,500 tons; steam. E. St. George Doble, supt.

MINERAL PAINT

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 200 POUNDS, KIND OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN	AND	COUNTY.	
Gallatin		Franklin	Saline River Paint Co., Kansas City, Kan., Betzel, secy.; Hugh MacMillan, prest. and treas.; M. A. MacMillan, secy. and mgr. Cap. stk. \$25,000. Saline River, yellow and red ochre. Output, 1,500 tons.
Ry. 770.			

SALT

LOCATION OF MINE OR WELL, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Anthony	Harper	Anthony Salt Co., Geo. W. Maffet, pres.; T. B. Smith, secy. and treas.; Lew Sargent, mgr. and supt. Cap. stk. \$50,000. Anthony, common, fine. Wells, 14,000 tons; steam.		
"	"	"	Globe Salt Co., T. B. Smith, pres.; M. L. Sargent, secy. Cap. stk. \$50,000. Globe, fine, dairy. Wells, 10,000 tons; steam.	
Hutchinson	Reno	Barton Salt Co., Barton, common, fine. Wells, 17,885 tons; steam.		
"	"	"	Kansas Salt Co., R. R. Price, pres.; J. W. Mulkey, secy. and treas.; W. L. Moore, mgr. Cap. stk. \$1,000,000. Common, dairy. Wells, 50,000 tons.	
"	"	"	The Star Salt Co., R. E. Conn, pres. and mgr.; W. R. Randle, secy. and treas. Cap. stk. \$50,000. Star, common, fine, dairy. Well, 8,000 tons; steam. R. E. Conn, supt.	
Kanopolis	Ellsworth	Royal Salt Co., Kansas City, Mo., New York Life Bldg. J. S. Crowell, pres.; R. A. Worthington, secy.; John H. Thomas, treas.; S. E. Baker, mgr. Cap. stk. \$700,000. Royal, rock. Shaft, 35,000 tons; steam. James Cowie, supt.		
Kingman	Kingman	Farmers' & Drivers' Salt Co., F. A. Parsons, mgr. Fine, evaporated. Well, 2,500 tons; steam.		
"	"	"	Kingman Rock Salt Co., Shaft, steam.	
Lyons	Rice	Lyons Rock Salt Co., St. Louis, Mo., Globe-Democrat Bldg. Alfred Bevis, pres.; C. H. Longstreth, secy.; Jean F. Webb, v. pres., treas. and mgr. Cap. stk. \$500,000. Salt wells, 50,000 tons; steam.		
"	"	"	Midland Rock Salt & Mineral Co., Cleveland, Ohio. Dan P. Edls, pres.; H. W. Gelmer, secy.; Howard P. Edls, treas.; John P. Brishen, mgr. Midland, rock salt. Shafts, 100,000 tons. Geo. M. Anderson, supt.	
Solomon City	Dickinson	Solomon Solar Salt Co., Kansas City, Mo., 509 Walnut st. L. J. Talbott, pres.; John R. Ranson, secy., treas. and mgr. Cap. stk. \$80,000. Solomon, coarse, fine. Well, 2,000 tons; steam. J. Samuel Winn, supt.		
Sterling	Rice	Sterling Salt Co., T. H. Brown, pres.; Dr. P. P. Trinchard, secy.; J. C. Turner, treas. and mgr. Cap. stk. \$24,000. Coarse. Wells, 15,000 tons; steam.		
Wellington	Sumner	D. A. Espy, Coarse. Well, 5,000 tons; water.		

SEE ALSO SUPPLEMENTARY LIST

KENTUCKY

COAL ANTHRACITE

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWN	AND	COUNTY.	
Carlisle		Webster	Henry Rowland. Slope, 60 tons; horse.
Knott			
Hindman		Knott	R. S. Corbett (local). Sassafras, Ky. Cap. \$3,000. Open pit; hand.
P. O. Ry.		Jackson 362.	
Knottsville		Dayness	C. E. Coomes (local). Cap. \$500. Hobbs. Tunnel, 300 tons; hand.
		Ry. Owensboro	407, 408
"		"	Milton Roberts (local). Cap. \$500. Roberts. Open pit; hand.
Laurel Creek		Clay	J. L. Hornsby & Sons (local). J. L. Hornsby, prest. and supt.; H. C. Hornsby, secy. and treas.; Isaac
Ry.		London	408. Hornsby, mgr. Cap. \$25,000. Laurel Creek. Open pit, 3,000 tons; steam and water.
Lily		Laurel	Lily Coal Co. C. Crook, prest.; S. W. Hodge, secy.; J. C. Wilder, treas.; Roseane Hodge, mgr. Cap. stk.
Ry.		408.	\$100,000. Lily. Tunnel; hand. Frank Elliott, supt.
Line Creek		Pulaski	John M. Mayfield (local). Lacey's Fork. Tunnel; hand.
Ry.		Somerset	612.
Pleasant		Marion	S. D. McCoy (local). Open pit, 3 tons; hand.
Ry.		Peach Orchard	557.

COAL BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWN	AND	COUNTY.	
Aberdeen		Butler	Aberdeen Coal & Mining Co., Morgantown, Ky. E. P. Aspley, prest., G. D. Render, secy. and treas.;
Ry.		2880.	James E. Phillips, mgr. and supt. Cap. stk. \$20,000. Aberdeen. Open pit, drift, 40,000 tons; horse,
			hand.
Etnaville		Ohio	Justice Simpson. Etnaville. Drift; hand.
Ry.		300.	
Alpharetta		Floyd	S. P. Dugas & M. C. Spencer (local). Tunnel; hand.
Ry.		Prestonsburg	557.
Alpine		Pulaski	Richmond Coal Co., Chattanooga, Tenn., Keystone Block. C. B. Emley, prest.; T. L. Richmond, secy. and
Ry.		160.	treas. Cap. stk. \$25,000. Richmond. Drift, 50,000 tons; compressed air. E. A. Foster, supt.
Altamont		Laurel	Altamont Coal Co. C. Crooke, prest. and mgr.; F. E. Simpson, secy.; W. P. Crooke, treas. Cap. stk.
Ry.		408.	\$200,000. Altamont. Tunnel, 60,477 tons; steam, horse. J. C. McK. Richardson, supt.
Anglin		Carter	Little Fork Coal & Sand Co., Lexington, Ky. S. W. Lytle, prest., Miss Mamie Lytle, secy. and treas.,
Ry.		242.	M. L. Beall, mgr. Cap. stk. \$25,000. Little Fork. Tunnel; hand (developing).
Anyville		Jackson	Vaughn Mining Co., Tynor, Ky. Cap. \$2,000. Vaughn. Open pit, 20,000 tons; hand. James St. John, supt.
Ry.		East Bernstadt	408.
Back Bone		Filiott	J. K. Pennington (local). Tunnel; hand.
Ry.		Willard	242
"		"	M. M. Rice (local). Tunnel; hand.
Barnett's Creek		Johnson	William Trumble (local). Tunnel; hand.
Ry.		Fairsville	547
Bartles		Hopkins	Cooperative Mining & Manufacturing Co., John Dunning, prest. S. Platt, secy. and treas. Cap. stk.
Ry.		Eastington	408. Cooperative. Drift, 32,000 tons; horse.
Baskett		Henderson	Baskett Coal Co. C. L. Nall, prest. R. S. Easton, secy. and treas. William Jamieson, mgr. and supt.
Ry.		407	Cap. stk. \$25,000. Baskett. Shaft, 50,000 tons; steam.
Beattyville		Lee	John G. McGuire (local). Tunnel; hand.
Ry.		St. Helens	362
Beck		Ohio	Mrs. Martha P. Ward (local). Open pit, 24 tons; hand.
Ry.		Beaver Dam	400
Beech Grove		McLean	W. H. Hardin (local). Tunnel, 100 tons; hand, horse.
Ry.		Wrightslburg	280.
"		"	John I. Hudson (local). Slope; horse.
Bee Spring		Johnson	John F. Meredith (local). Tunnel; hand.
Ry.		Clayson	512, 400
Bloomville		Owley	Richard Reynolds & A. D. Brandenburgh. Cap. \$15,000. Reynolds. Tunnel, 6,000 tons; hand.
Ry.		362.	
Bloom Springs		Johnson	Wm. A. Wells (local). Cap. \$5,000. Tunnel, 20 tons; hand.
Ry.		Richardson	557
Bowen		Powell	W. B. Goughlin, State, Ky. Branch. Tunnel; hand. H. S. McKnight, supt.
Ry.		462	
Brick Creek		Owley	S. Isaacs & Nelson Price (local). Isaac. Open pit, 80 tons.
Ry.		St. Helens	362

COAL BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT	
TOWN	CO.	COUNTY		
Fordsville	Ry. 403, 5P	Ohio	Gains & Read	Cap. \$4,000. Open pit, 15,000 tons; horse. W. S. Gains, supt.
"	"	"	G. C. Gentry (local)	Tunnel; horse.
"	"	"	John Johnson	Open pit; horse.
Frenchburg	Mempho P. O. Rothwell, Ky. Mt. Sterling 363, 699	Mempho	J. J. & W. T. Deems (local)	Indian Creek. Tunnel, hand.
Gay's Creek	Perry Ry. Richmond 360	Perry	Peter Gross & Sons	Cap. \$50,000. Open pit; hand.
Grassy Creek	Morgan Ry. Morehead 699	Morgan	Wiley Mullens (local)	Tunnel; hand.
Gray	Ry. 408	Knox	North Jellico Mining Co., C. S. Neale, mgr.	Cap. \$tk. \$75,000. North Jellico. Tunnel, 500 tons; horse; steam breaker.
Grayson	Ry. 242, 132	Carter	Hord Bros.	Tunnel, 150 tons; hand.
"	"	"	James Osenton	Cap. \$50,000. Osenton. Tunnel, horse; hand. Peter Prater, mgr. and supt.
"	"	"	Frank Powers	Tunnel, hand.
Greenville	Ry. 439	Muldenberg	N. M. Mann (local)	Tunnel, 300 tons; horse.
"	"	"	Joseph Tyson	Cap. \$1,000. Gordon. Tunnel, hand.
Greenwood	Ry. 612	Fulaski	Greenwood Railway & Coal Co., Cincinnati, Ohio, 39 W. Third st. Thomas O. Lovett, chairman, Robert McE. Smith, secy., Louis Krohn, treas., S. A. Adams, mgr.	Cap. \$tk. \$50,000. Greenwood, Denver. Tunnel.
Groverdale	Magoffin Ry. Rothwell 365	Magoffin	J. W. Beck & Co. (local)	Cap. \$10,000. Groverdale. Tunnel, 100 tons; hand, breaker. G. Williams, supt.
Gypsy	Magoffin Ry. Prentissburg 549	Magoffin	E. H. Whitaker and others.	Cap. \$tk. \$30,000. Open pit; hand. Calvin Howard, supt.
Habit	Davness Ry. Owensboro 408, 407, 2807	Davness	P. E. Howard (local)	Cap. \$1,500. Howard. Tunnel, 4,500 tons; horse.
Hanson	Ry. 408	Hopkins	Amos Hook	Jones. Slope, 5,000 tons; hand.
Hawesville	Ry. 406	Hancock	Hawesville Coal Co., W. S. Morrison, prest., Ike C. Adair, secy. and treas., John S. Adair, mgr.	Cap. \$tk. \$25,000. Falcon. Slope; horse. James Gilliams, supt.
"	"	"	P. Kelly (local)	Slope; horse.
Hazard	Ry. Jackson 362	Perry	John C. Spencer, Chaynes, Ky.	Grapevine. Shaft, tunnel.
Hazel Green	Ry. Tortent 362	Wolfe	S. W. Cecil (local)	Cap. \$5,000. Tunnel, 500 tons; hand.
"	"	"	Ely & Son (local)	Open pit, 45 tons; hand. James F. Ely, supt.
"	"	"	Fletcher McGuire (local)	Tunnel, 375 tons; hand.
"	"	"	Jeremiah Proffitt (local)	Tunnel, 100 tons; hand.
"	"	"	G. B. Swango (local)	Tunnel, 100 tons; hand.
Hendricks	Magoffin Ry. Emtsville 132	Magoffin	H. P. Arnett	Cap. \$10,000. Hendricks. Tunnel, 6,000 tons; water.
Hindman	Ry. Jackson 362	Knott	Samuel Madden (local)	Open, hand.
Horse Branch	Ry. 499	Ohio	Robert A. Miller	Horse Branch. Tunnel, hand.
Huntsville	Butler Ry. Rochester 280	Butler	D. Hunt	Cap. \$10,000. Muddy River. Slope (developing).
Hyden	Ry. 748	Foshee	John Asher (local)	Cap. \$2,000. Asher. Open pit, 2,000 tons; hand.
Inez	Martin Ry. French Orchard 537	Martin	G. W. Comer (local)	Kirk. Open pit, 500 tons; hand.
"	"	"	John Dugess, Eden, Ky. (local)	Kingsfisher. Tunnel, 4,300 tons; hand. M. C. Dugess, supt.
Island	Ry. 408	McLean	Sid Gardner (local)	Drake. Open pit, 8,000 tons; hand.
"	"	"	Alva Karnes (local)	Drift, open pit; horse. Walter Davis, supt.
"	"	"	George Wood (local)	Tunnel, 400 tons; hand.
"	"	"	James Wood (local)	Open pit, 120 tons; hand.
Jackson	Breathitt Ry. El Katava 362	Breathitt	Kentucky Union Land Co., Clay City, Ky., E. F. Halsey, receiver, Charles Hendrie, mgr. and supt.	Cap. \$tk. \$1,000. El Katava. Tunnel, 12,000 tons; hand.
Jellico	Whitley P. O. and Ry. Jellico, Tenn., 240, 408	Whitley	East Tennessee Coal Co., Knoxville, Tenn., 36 Union st. E. J. Davis, prest. and gen. mgr., T. C. Rich- mond, secy. and treas.	Cap. \$tk. \$50,000. Dowdais. Tunnel, 84,577 tons; steam. Philip Francis, supt.
"	"	"	Jellico & Bird-Eye Coal Co., Louisville, Ky., 64 W. Main st. E. T. Halsey, prest., Wm. L. Halsey, secy. & Columbia Finance & Trust Co. treas.	Cap. \$tk. \$650,000. Tunnel, steam (developing).

COAL—BITUMINOUS—(CONTINUED)

LOCATION OF MINE,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.
TOWN AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED,
COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT.

Jonesburg Ky., Wasisto 408.	Harlan	John L. Jones, local.	Cap. \$3,000. Hand, 11 tons.
Kearney Ky., Jellico, Tenn., 408.	Whitley	Main Jellico Mount Coal Co., Attila Cox, pres't., H. A. Sanders, secy., and treas.; Hywel Davies, mgr. Cap. stk. \$500,000. Tunnel, 85,000 tons.	
Kiptope Ky., 409.	Carter	Norton Iron Works, Ashland, Ky. C. H. Cron, pres't. and mgr.; F. E. Seaton, secy.; John Russell, treas.; Cap. stk. \$100,000. Star Furnace. Tunnel, 60,000 tons. Horse breaker. James W. Hughes, supt.	
Kingston Ky., Harris 400.	Madison	Mrs. K. J. Moran, local. Bigloll. Open pit, 20 tons; hand.	
Laso Ky., Mahan 408.	Whitley	George W. Hamblin, local. Cap. \$1,000. Tunnel, slope, open pit, 20 tons; hand.	
Lanesville Ky., 407, 544.	Floyd	J. D. Bush & Co., J. D. Bush, pres't., Henry Hatcher, secy., Archibald Gibson, treas.; Cap. stk. \$10,000. Tunnel, 200 tons; hand.	
Lewisport Ky., 407, 544.	Hancock	Wm. F. King, lessee, local. Pat. Slope, 500 tons; horse.	
Lily Ky., 408.	Laird	Lily Mining & Manufacturing Co., J. C. Van Rantou, pres't.; W. Addams, secy.; Hywel Davies, treas., and mgr.; Cap. stk. \$100,000. Lily. Tunnel, 70,000 tons; steam, horse; washer.	
Livermore Ky., 509.	McLean	Wm. Hutton. Cap. \$10,000. Hicks. Open pit, 30 tons; horse.	
Metdore Ky., 409.	Carter	Wm. Kiser & Co., Kiser. Open pit, hand.	
McHenry Ky., 409.	Ohio	McHenry Coal Co., W. A. Duncan, pres't. and mgr.; C. W. Taylor, secy.; G. I. McHenry, treas.; Cap. stk. \$175,000. McHenry. Slope, 12,000 tons; hand. Robert Duncan, supt.	
"	"	Williams Coal Co., J. S. Williams, pres't.; K. A. Williams, secy.; J. W. Cooper, treas.; Samuel James, mgr. and supt.; Cap. stk. \$40,000. Williams. Slope, 15,000 tons; steam.	
McK Ky., Harris 400.	Jackson	Joseph Harrison and others, local. Cap. \$1,000. Bill Branch. 5,000 tons; hand.	
Madisonville Ky., 408.	Hopkins	John Jackson, local. Island. Slope, 30 tons; horse.	
"	"	Reinecker Coal Co., Conrad Reinecker, pres't.; Inkerman Bailey, secy., treas. and mgr.; Cap. stk. \$100,000. Reinecker. Shaft, 17,500 tons; steam, and 1 tons; Fager, supt.	
Manchester Ky., London 408.	Cay	T. E. Garrard, local. Open pit, 20 tons; hand.	
Mercer Sta. Ky., 409.	Muhlenberg	Wm. H. Doyce. Doyce's Kentucky. Shaft, 5,000 tons; steam. Twelve ovens. Wm. Wagon, supt.	
Monticello Ky., Mill Springs 20.	Wayne	T. J. Alexander, local. Smoking Ridge. Tunnel, 400 tons; hand.	
Morganfield Ky., 546.	Union	Watkins & Dunnagan. Cap. \$10,000. Watkins, 2,000 tons; steam.	
Morgantown Ky., 543, 280.	Butler	Abertson Coal & Mining Co., T. P. Aspley, pres't.; J. D. Bender, secy. and treas.; James E. Phillips, mgr. and supt.; Cap. stk. \$25,000. Abertson. Tunnel, 12,871 tons.	
"	"	J. M. Lary, local. Hope. Open pit, hand.	
"	"	O. F. Wade, local. Tunnel, hand.	
Morton's Gap Ky., 408.	Hopkins	St. Bernard Coal Co., Lexington, Ky. T. C. Schree, pres't.; John E. Atkinson, secy. and treas.; Geo. C. Atkinson, supt.; Cap. stk. \$1,000,000. Diamond. Tunnel, 110,000 tons; steam. Breaker, washer.	
Mountain Ash Ky., 4.	Whitley	Jellico Coal Mining Co., Se Unionist. T. J. Davis, pres't.; F. C. Richmond, secy.; Charles Dudley, treas.; Cap. stk. \$100,000. Jellico. Slope, horse, developing.	
Mt. Vernon Ky., 408.	Rock Castle	E. W. & E. D. Hansel, local. Tunnel, 50 tons; hand.	
Mud River Ky., 408.	Muhlenberg	Mud River Coal, Coke & Iron Co., Isaac Litten, pres't.; John C. Gordon, secy.; W. G. S. Anderson, secy., treas. and supt.; Cap. stk. \$200,000. Mud River. Slope, 100,000 tons; steam.	
Musie Ky., 442.	Carter	Lexington & Carter County Mining Co., Lexington, Ky. W. Short st. R. H. Gortney, pres't. and treas.; J. T. Vance, secy.; F. S. Cully, mgr. and supt.; Cap. stk. \$100,000. Musie, Tunnel, 4,750 tons; steam, horse, hand.	
Nebu Ky., 408.	Hopkins	T. P. Barnes, local. Cap. \$4,000. Drift, 20 tons; horse.	
"	"	W. C. Custer. Cap. \$100. Brinkley. Slope, 500 tons; hand.	
New Chapel Ky., Falmouth Station 407.	Hancock	T. D. Lewis, local. Tunnel, 20 tons; hand.	
Olive Hill Ky., 409.	Carter	Jarvis Branch Coal Mining Co., John Jarvis, pres't. and supt.; D. Jarvis, secy.; Robert Jarvis, treas.; James S. Jarvis, mgr.; Cap. \$1,000. Jarvis Branch. Tunnel, 12,000 tons; hand.	
Owensboro Ky., 407, 408, 549.	Daviess	R. S. Patrick. Cap. \$4,000. Shaft, 2,400 tons; horse.	
Paintsville Ky., 547.	Johnson	E. W. Fairchild. Cap. \$25,000. Lick Spring. Tunnel, hand. Daniel Hitchcock, supt.	
"	"	G. W. George, local. Cap. \$500. Tunnel, hand.	
"	"	E. F. & H. S. Howes. Cap. \$10,000. Howes. Tunnel, 4,000 tons; hand. Wm. Castle, supt.	
Paradise Ky., 544.	Muhlenberg	Gen. D. C. Buell. Cap. \$60,000. Ardrie. Tunnel, shaft, 30,000 tons; horse. Thomas Hull, supt.	

COAL—BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWN	AND	COUNTY.	
Patesville	Hancock	Samuel Flowers (local). Tunnel; hand.	
Ry. Cloverport 76, 407			
Peach Orchard, Lawrence		Great Western Mining & Manufacturing Co., Ashland, Ky. B. D. Harris, pres.; John Carlisle, secy. and	
Ry. 533, 537.		treas.; W. S. Howell, gen. mgr. Cap. stk. \$300,000. Elizabeth, Annie. Slope, 125,000 tons; steam;	
		compress air. Conrad Frank, supt.	
Pikeville	Pike	Fulton Boogie. Ratliff Creek. Tunnel; hand. Milton McGhofan, supt.	
Ry. 121.			
Pine Hill	Rock Castle	Mitchell Coal & Mining Co. William Mitchell, pres.; W. H. Strossman, secy. and treas.; W. Welsh, gen.	
Ry. 408.		mgr. and supt. Cap. stk. \$50,000. Mitchell. Tunnel.	
Pineville	Bell	Pine Mountain Iron Co. Cap. stk. \$100,000. Strait Creek, West Pineville. Tunnel, 1,500 tons; steam;	
Ry. 408.		breaker, 200 coke ovens.	
"	"	Southern Land Improvement Co. J. C. Howard, pres.; Jesse B. Butin, secy.; J. G. Taylor, treas.; J. D.	
"	"	Blake, mgr. Cap. stk. \$5,000,000. Truxton. Open pit, 75,000 tons; horse, electricity; 100 coke ovens,	
"	"	capacity 45,000 tons. D. K. Koger, supt.	
Pittsburg	Laurel	Laurel Coal Co. Geo. Givens, pres. and treas.; J. W. Bastin, secy. and supt. Cap. stk. \$80,000. Laurel	
Ry. 408.		Slope. 400,000 tons; horse.	
"	"	Pitman Coal Co. W. A. Pugh, pres.; J. M. Bailey, secy.; S. V. Rowland, treas. and mgr. Cap. stk.	
"	"	\$100,000. Pitman. Slope. Wm. M. Seil, supt.	
"	"	W. A. Pugh. Cap. \$6,000. Etna. Open pit, 12,000 tons; horse. I. H. Collins, supt.	
"	"	Union Coal Co. Thompson Jeffrey, pres.; mgr. and supt.; John Jeffrey, secy. and treas. Cap. stk. \$5,000.	
"	"	Union. Tunnel, 22,000 tons; horse.	
"	"	Victoria Coal Co. W. M. Baxter, pres.; J. E. Baxter, secy. and mgr.; J. J. Hughes, treas. Cap. \$12,000.	
"	"	Victoria. Slope, 32,000 tons; horse. J. E. Carnell, supt.	
Pleasant View	Whitley	Central Jellison Coal Co. J. P. Mahan, pres.; J. W. Siler, secy. and treas.; John Phillips, mgr. and supt.	
Ry. 408.		Cap. stk. \$24,000. Central Jellison. Open pit, 100,000 tons; horse.	
Prestonsburg	Floyd	Mary L. Hatcher (local). Rock Port. Tunnel, 60 tons; hand.	
Ry. Richardson 537			
"	"	David Simmons (local). Open pit, hand.	
"	"	J. H. Spradlin & Co. (local). Cap. \$25,000. Big Sandy. Hand.	
Providence	Webster	Providence Coal Co. E. B. Hayden, pres.; W. L. Barnes, secy., treas., mgr. and supt. Cap. stk. \$100,000.	
Ry. 408.		Providence. Slope, shaft, 32,000 tons; steam.	
Rockhouse	Letcher	James M. Collins & Co. James M. Collins, pres.; W. H. Nickels, secy., treas. and mgr. Cap. \$20,000.	
Ry. Washoto 408.		(Developing.)	
Rothwell	Menifee	W. A. Allen (local). Hathaway. Tunnel, 400 tons; hand. Louis Beer, supt.	
Ry. 363.			
Rumsey	McLean	J. E. Arnold (local). Slope, drift; hand.	
Ry. 2980.			
Rush	Boyd	Ashland Coal & Iron Railway Co. Ashland, Ky. Douglas Putnam jr., pres. and gen. mgr.; Robert	
Ry. 24.		Pochles, secy. and treas.; E. C. Means, supt. Cap. stk. \$1,500,000. Rush, Kilgore. Tunnel, 200,000	
		tons; horse, Jacob Schugh, supt.	
Sacramento	McLean	Andrew Bros., lessees (local). Sacramento. Shaft. Steam.	
Ry. South Carrollton 408			
St. Charles	Hopkins	St. Bernard Coal Co., Earlinton, Ky. E. G. Schree, pres.; John B. Atkinson, v.-pres. and treas.; Geo.	
Ry. 499.		C. Atkinson, secy. Cap. stk. \$1,000,000. St. Charles. Tunnel, 110,000 tons; steam; breaker, washer.	
Salversville	Mingo	Grats Allen. Cap. \$10,000. Open pit, 150 tons; hand; 12 coke ovens, 1,000 tons.	
Ry. Richardson 557.			
"	"	Isaac Beck and others (local). Cap. \$10,000. Tunnel, 6,000 tons; hand; breaker.	
"	"	Add. Marshall. Tunnel, water.	
"	"	Jasper Owens. Cap. \$5,000. Oakley Creek. Open pit; hand.	
Sandy Hook	Elliott	John Watson (local). Open, 30 tons; hand. Peter Smith, supt.	
Ry. Morehead 499.			
Schree	Webster	Henry Rowland (local). Tunnel, 500 tons; horse.	
Ry. 408.			
See	Powell	Moses Morton (local). Glad. Open pit, hand.	
Ry. Bowen 362			
Seaway	McLean	Russel Bates (local). Cap. \$200. Bates. Slope, horse.	
Ry. Rumsey 2980.			
"	"	Jerry Vandevye (local). Cap. \$300. Boeder. Slope, 200 tons; horse.	
Sharon Grove	Todd	R. W. Driskill (local). Cap. \$200. Tunnel, 500 tons; hand.	
Ry. Elkton 408.			
Shrewsbury	Grayson	M. Wilks (local). Open pit, 400 tons; hand.	
Ry. Millwood 499.			
Sip	Johnson	John Henry Candill (local). Candill. Tunnels, 100 tons; hand.	
Ry. Richardson 537.			
Skylesville	Muhlenburg	J. W. Castree (local). Cap. \$350. Open pit, 800 tons; horse.	
Ry. 2980.			
Somerset	Pfaffsk	C. C. Whitaker, Line Creek, Ky. Whitaker. Tunnel, horse, breaker, washer, 11 coke ovens. George	
Ry. 467		Givens, supt.	

COAL—BITUMINOUS—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
S. Carrollton		Muhlenburg	George W. Doss (local).	Lewisburg. Open pit, 4,000 tons, horse.
Ry. 408,				
Spottsville		Henderson	T. Shinn & Bros., T. Shinn, pres., and mgr.; R. H. Shinn, secy., and treas.	Cap. stk. \$10,000. Green River. Shaft, 64,000 tons, steam. Evan Reese, supt.
Ry. 407,				
Spring Grove		Union	J. W. Hall (local).	Slope, 750 tons; hand.
Ry. Morganfield 499,				
Stephens		Elliott	Jesse Lyon (local).	Harigan. Tunnel, horse.
Ry. Willard 242,				
Steukenville		Wayne	Steukenville Coal Co., M. H. Bohon, pres., Mrs. W. P. Jones, secy., J. H. Duncan, treas.	Cap. stk. \$100,000. Steukenville. Open pit, hand. John E. Bohon, mgr. and supt.
Ry. 201,				
Sturgis		Union	Barnaby & Son.	Slope, 700 tons, hand. C. Barnaby jr., supt.
Ry. 499, 533, 536,				
"		"	Cumberland Coal Co., Nashville, Tenn., W. W. Smith, pres., Isaac Reese, secy., and treas.	Cap. stk. \$150,000. Wardlaw. Slope, 150,000 tons, steam. J. C. Wardlaw, supt.
"		"	Sturgis Coal & Coke Co., Louisville, Ky., cor. Fourth and Main sts., T. L. Mills, pres., Geo. H. McCartney, secy., and mgr., Moses Schwartz, treas.	Cap. stk. \$800,000. Sturgis. Shaft, 150,000 tons, steam. Herbert H. Richards, supt.
Treadway		Clay	Keith & Co.	Cap. \$7,000. High Nob. Tunnel, 2,000 tons, electricity, 500 coke ovens. J. B. Howard, supt.
Ry. London 408,				
Vest		Knott	James M. Grisby (local).	Open pit, hand.
Ry. Jackson 302,				
Walnut Grove		Pulaski	Budie Cuskey.	Cap. \$2,000. Tykims. Open pit, 200 tons, hand.
Ry. Eubank 612,				
Ward City		Johnson	Preston & Price (local).	Tunnel, 500 tons, hand. Henry Price, supt.
Ry. Richardson 537,				
Warfield		Martin	Tug River Salt & Coal Co. (local).	Warfield. Open pit, horse. John Meade, supt.
Ry. Penell Orchard 537,				
Webbville		Lawrence	J. C. Webb (local).	Tunnel, hand.
Ry. 242,				
West Liberty		Morgan	John I. Henry (local).	Open pit, hand.
Ry. Moorehead 195,				
West Louisville		Daviess	T. L. Hart.	Cap. \$150. Buck Washington. Shaft, 30 tons, horse.
Ry. Owensboro 407, 408,				
"		"	J. P. O'Bryan (local).	Cap. \$1,000. Shaft, 800 tons, horse. J. H. Stallings, supt.
"		"	Wood Bros. & Elder.	Cap. \$6,000. Shaft, 2,000 tons, steam.
Wesson		Crittenden	J. H. Tate (local).	Cap. \$1,000. Open pit, 500 tons, steam.
Ry. 534,				
Whalen		Daviess	H. C. Brown (local).	Slope, hand.
Ry. Shorts 540,				
Whitesburg		Letcher	H. B. Branson (local).	Cap. \$2,500. Open pit, 100 tons, hand.
Ry. Morton, Va. 408,				
Willard		Carter	Bent's Coal Works (local).	Tunnel, hand.
Ry. 242,				
"		"	Eastern Kentucky Railway Co., Greenup, Ky., H. W. Bates, gen. mgr., Lost Creek.	Tunnel, 24,000 tons. George Gibbs, supt.
"		"	Jacob Horton (local).	Tunnel, horse.
Williamsburg		Whitley	G. W. Sproule (local).	Open pit, 500 tons, hand.
Ry. 408,				
"		"	J. Wilder (local).	Cap. \$1,000. Slope, open pit.
Woodbine		Whitley	S. B. Hart (local).	Open pit, hand.
Ry. 408,				
Yarmington		Daviess	Henry Crenson.	Cap. \$800. Slope, 4,800 tons, hand.
Ry. 407,				

COAL—CANNEAL.

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Back Bone		Elliott	R. B. Leedy (local).	Tunnel, hand.
Ry. Willard 242,				
Booneville		Owsley	H. B. Cawood (local).	Tunnel, 30 tons, hand.
Ry. 362,				
"		"	Daniel Reynolds & Simon Reynolds (local).	Cap. \$1,000. Reynolds. Tunnel, 100 tons, hand.
"		"	G. B. Reynolds.	Open pit, 5,000 tons, hand.

COAL—CANNEL—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Caneville		Grayson	D. A. Williams.	Open pit; hand.
Cloverport		Breckenridge	Breckenridge Co., Ltd., Louisville, Ky., Room 62 Kentucky National Bank Bldg.	Wm. Hopper, mgr. Cap. stk. \$2,500,000. Breckenridge. Tunnel, 16,000 tons; horse. James Heron, supt.
Cookling		Owsley	J. P. Jett and others.	J. P. Jett, prest. and supt.; J. A. Wilson, secy.; Wm. Blake, treas.; L. Day, mgr. Cap. stk. \$40,000, incl. cap. \$2,000. Elwood Creek. Open; hand.
Dawson		Hopkins	J. P. Alexander locally.	Tunnel; hand.
East Point		Johnson	W. L. Smith, Paintsville, Ky.	Cap. \$50,000. Smith. Tunnel, 100,000 tons; hand. D. J. Smith, supt.
Elkwater		Breathitt	Charles Henry locally.	Open pit; hand.
Ezel		Morgan	Wm. M. Hensley locally.	Open pit; hand.
Flat Rock		Fulaski	Barren Fork Mining & Coal Co., Lexington, Ky., 47 N. Mill st.	J. T. Shade, prest.; W. Bright, secy. and treas. Cap. stk. \$30,000. Barren Fork. Shaft, 74,900 tons; air, hand. J. H. Holland, supt.
Hager		Magoffin	Reed & Stacy locally.	Cap. \$8,000. Hand. Lewis Reed, supt.
Holton		Leslie	Peter Wilson locally.	Cap. \$1,000. Beech Group. Open pit; hand; breaker.
McDowell		Floyd	Wm. Henson and others locally.	Cap. \$5,000. Open pit; hand. J. B. Treasure, supt.
Manchester		Clay	Thomas J. Brown locally.	Horse Creek. Tunnel; hand.
Mt. Carbon		Johnson	Wm. Richardson & Co., Paintsville, Ky. locally.	White House, Sandy River. Tunnel; horse. E. S. Thomas, supt.
"		"	Sandy River Cannel Coal Co., Chillicothe, Ohio.	F. A. Stacey, prest.; G. O. Richardson, secy. and mgr.; J. P. Dieter, treas. Cap. stk. \$30,000. Sandy River. Tunnel, 7,067 tons; hand. G. K. Bickford, supt.
Mt. Savage		Carter	Lexington & Carter County Mining Co., Lexington, Ky., 40 Short st.	R. H. Courtney, prest. and treas.; J. T. Vance, secy.; F. S. Cully, mgr. and supt. Cap. stk. \$300,000. Tinson. Tunnel, 6,500 tons. Steam, horse; hand.
Myrtle		Johnson	Big Sandy Cannel Coal Co., Dealer, prest.; G. C. Richardson, secy.;	Stacy, treas. Cap. stk. \$50,000. Big Sandy. Open pit; horse. George Bigbart, mgr. and supt.
"		"	White House Cannel Coal Co., Ashland, Ky.	J. H. Northrup, prest.; George C. Galun, secy. Cap. stk. \$2,000. White House. Tunnel, 30,000 tons; hand. G. H. Thomas, supt.
Paintsville		Johnson	N. T. Burnett locally.	Cap. \$3,000. Tunnel, slope, 75 tons; hand.
"		"	John C. Cellayo Cannel Coal Co., Henry, Ont. prest.; John C. Cellayo, secy.;	E. H. Martin, treas. Cap. stk. \$20,000. Paintsville. Tunnel, 1,000 tons.
"		"	James Dills locally.	Cap. \$3,000. Muddy Branch. Tunnel, 600 tons; hand.
"		"	J. C. C. Mayo & Co.	Cap. \$10,000. Fletcher. Open pit, 500 tons; hand. A. S. Leslie, supt.
"		"	D. Polphrey & Son.	Barnett's Creek. Tunnel, hand, breaker. J. V. Adams, supt.
Pikeville		Pike	Monarch Coal & Coke Co., Frankfort, Ky.	T. W. Harding, prest.; W. A. Wilson, secy.; D. S. McIntyre, treas.; Wm. T. Love, mgr. and supt. Cap. stk. \$800,000. Monarch. Shaft.
Prestonburg		Floyd	T. Jefferson Patton locally.	Cap. \$800. Prestonburg. Open, 300 tons; hand, horse.
Rockhouse		Fletcher	Peter Adkins locally.	Cap. \$2,000. Tunnel (developing).
Salyersville		Magoffin	Adam Allen, Calvin.	Open pit; hand.
"		"	Buck & Co.	Cap. \$15,000. Open pit, 50,000 tons; steam, washer, 12 coke ovens. R. W. Row, supt.
"		"	Samuel Carpenter.	Tunnel, 2,300 tons; hand.
"		"	Benjamin Hammond.	Coal Branch. Tunnel, 600 tons.
Sandy Hook		Elliott	M. P. Skaggs locally.	Buck Fork. Tunnel; hand.
Victoria		Hancock	Breckenridge Coal Co., Ltd., Cloverport, Ky.	William Hooper, mgr.; O. Gregory, secy. Cap. stk. \$75,000. Breckenridge. Open pit, 24,000 tons; horse, steam. James Heron, supt.
West Liberty		Morgan	J. H. Cole locally.	Rush Branch, Calvin. Tunnel; hand.
"		"	E. B. Perry locally.	Elk Fork. Open pit, 400 tons; hand.
Whitesburg		Webster	Mary Harding locally.	Shaft; hand.

FIRE CLAY

LOCATION OF MINE OR BANE, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.
TOWNS AND COUNTY.	
Glenn (not a P.O.), Lewis Ky., 151.	Kentucky Fire Brick Co., Portsmouth, Ohio. George Davis, presdt.; L. C. Hurley, treasr. Cap. stk. pd. up \$100,000. Tunnel. Open pit, 3,000 tons; hand.

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
Grand Rivers, Livingston Ky., 142, 201, 400.	Grand Rivers Mining Co., Boston, Mass., 64 Federal st. Arctus Blood, presdt.; Fred Joy, secy.; A. H. Browl, treasr.; Thomas W. Lawson, 209, 1027. Cap. stk. \$1,000,000. Brown iron ore. Opened and pit, hand, horse, 2 furnaces. Joseph M. Searle, supt.

SALT

LOCATION OF MINE OR WELL, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
Grandenburg Ky., 116.	Meade County Salt Works. Alonzo Moremen, proptr. Line, 7,500 cts. steam.

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
Big Chilly Ky., 490.	Ohio Bituminous Rock Co., Cincinnati, O., 91 W. Fourth st. H. D. Emerson, presdt.; C. L. McCrea, secy., cap. stk. \$400,000. Bituminous rock. Open pit, steam.
Garfield Ky., 107.	Brockenridge Asphalt Co., Louisville, Ky., Room 6, Norton Bldg. Marshall Morris, presdt. and mgt.; B. M. Rivers, secy. and treasr. Cap. stk. \$100,000. Bituminous sandstone. Open pit, 10,000 tons.
Hadley Ky., 280.	F. R. Caden & Co., Evansville, Ind., 311 1/2 W. Ohio st. Ogden limestone. Steam mill.
Irvington Ky., 107.	Morris Bennett Stone Co., Louisville, Ky., Room 6, Norton Bldg. Marshall Morris, mgt. Limestone 20,000 tons; hand mill. Ed. Bennett, supt.
Langford Ky., 300.	M. N. Langford, Blue Stone. Steam.
Morehead Ky., Rockville 499.	Kentucky Blue Stone Co., George M. Porter, presdt.; F. S. Martin, secy. and treasr.; John E. Whapp, mgt. Cap. stk. \$125,000. Free limestone. Open pit, 20,000 tons; steam mill. Winslow S. Martin, supt.
Moreheadville, Rock Castle P. O. and Ky. Lang ford 300.	Burns Vista Free Stone Works, Cincinnati, Ohio, 105 W. Front st. P. O. Box 707. Cap. \$100,000. Rock Castle, free limestone, 15,000 tons; steam. Walter Newhall, supt.
S. Carrington, Mithlenburg Ky., 500, 2980.	John Oman, Nashville, Tenn., 909 S. High st. Cap. \$100,000. Green River sandstone. Open pit, 50,000 tons; steam. Stone and marble mills. D. S. Oman, supt.

SEE ALSO SUPPLEMENTARY LIST

LOUISIANA

SALT

LOCATION OF MINE OR WELL, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
New Iberia Ky., 692.	New Iberia Salt Co., New York City. John E. Welsh, presdt.; J. Koeks, secy.; J. L. Nest, treasr.; J. L. McCalla, mgt. and supt. Cap. stk. \$400,000. Avery. Shells, 50,000 tons; steam.

MAINE

MICA

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS	AND	COUNTY.	
Pitts- Ry. 290.		Oxford	Mount Mica Co., Bridgton, Me. A. C. Hamlin, pres. and mgr.; H. M. Fairbanks, secy.; J. S. Jenness, treas. Mount Mica. Open pit; hand.

SLATE

LOCATION OF QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF QUARRY, KIND OF SLATE, KIND OF QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF QUARRY SUPERINTENDENT.
TOWNS	AND	COUNTY.	
Brownville Ry. 46, 96.		Piscataquis	Merrill Brownville Slate Co., T. W. Merrill, pres., S. P. Johnson, secy. and treas.; Arthur Merrill, mgr. and supt. Cap. stk. \$240,000. Merrill, Brownville. Open pit, 5,000 tons; steam.
Monson Ry. 414.		Piscataquis	Monson Lakeside Slate Co., Portland, Me., 185 Middle st. M. P. Frank, pres.; P. J. Larrabee, secy. and treas.; M. T. Phillips, mgr. and supt. Cap. stk. \$30,000. Monson Lakeside. Open pit; steam.
Shirley P. O. and Ry. Blau- chard 46.		Piscataquis	Deshauiers Slate Co., Blanchard, Me. A. Deshauiers, pres.; H. M. Heath, secy.; F. W. Eaton, treas., mgr. and supt. Cap. stk. \$150,000. Moosehead. Open pit, 1,000 tons; steam.

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERILLS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS	AND	COUNTY.	
Addison Ry. 31.		Pleasant River	Pleasant River Granite Co. of Maine, Philadelphia, Pa., 45 Drexel Bldg. J. Thompson Baker, pres., Robert P. Willson, secy.; Philip P. Baker, treas.; John L. Dabot, mgr. and supt. Cap. stk. \$250,000. Pleasant River, granite. Open pit, 250 tons; steam, mill.
Athens Ry. Skowhegan 414.		Somerset	T. N. Joacum, Joacum, granite. Hand.
Auburn Ry. 290, 414.		Androscoggin	Mount Apatite Mineral Co., local, 68 Main st. Henry W. Oakes, pres.; A. E. Yerrill, treas. Cap. stk. \$9,000. Mount Apatite, tourmalines and aquamarines. Open pit; hand. H. C. Royal, supt.
Augusta Ry. 414.		Kennebec	F. E. Garland, Granite. Open pit; horse and hand.
Biddeford Ry. West Biddeford 71.		York	Gordon & Melne, Cap. \$8,000. Granite. Open pit, 3,000 tons; hand.
Blue Hill Ry. 31.		Hancock	W. P. Bisset, Orland, granite. 3,200 tons; horse.
"	"	"	Capt. J. T. Miller, Granite. Open pit, hand.
"	"	"	White Granite Co., New York City, 547 W. Fourteenth st. N. G. White, pres.; J. E. Dutton, secy. and treas.; A. Le Poidevin, v.-pres. and mgr. Cap. stk. \$12,000. Blue Hill, granite. Steam.
Bridgton Ry. 77.		Chimberland	Allen Bros., Granite. Slope, hand, mill.
Bristol P. O. South Bristol Ry. 31.		Lincoln	South Bristol Granite Quarry, South Bristol, granite. 3,000 tons; horse, mill. E. P. Gamag, supt.
Calais Ry. 31, 39, 325.		Washington	Douglas Bros., St. Stephen, New Brunswick. Granite, 4,000 tons; hand, mills. W. S. A. Douglas, supt.
"	"	"	Maine Red Granite Co., Main st. E. B. Harvey, pres.; O. S. Tarbow, secy. and mgr.; C. H. Newton, treas. Cap. stk. \$80,000. Beaver Lake, granite. Open pit, 1,400 tons; water, steam, mills.
Canaan Ry. Skowhegan 414.		Somerset	Samuel L. Fowler, Cap. \$3,000. Fowler, granite. Open pit, 400 tons; hand.
Clark's Island Ry. 31		Knox	Clark's Island Granite Works, New York City, 25 Broadway. J. M. Snow, mgr. Clark's Island, granite. Open pit, 1,000,000 tons; steam, mill. W. T. Crosson, supt.
Crookleys Junction P. O. Lewiston Ry 290, 440.		Androscoggin	J. P. & James Murphy, Lewiston, Me., 12 Bates st. Cap. stk. \$16,000. Indv. cap. \$8,000. Granite. Open pit, 21,000 tons; steam, mills. J. P. Murphy, supt.
"	"	"	P. G. Merrill, Granite. 10,000 tons; horse.
"	"	"	Sullivan Green & Co., North Side. Open pit, 2,000 tons; hand, mill. Sullivan Green, supt.
"	"	"	H. M. Thayer, Green's Landing, Me. Cap. \$5,000. Granite. Open, hand.
"	"	"	Thos. Warren & Co., Green's Landing, Me. Cap. \$2,000. Green Head and Crotch Island, Granite. 4,000 tons; steam, mill. Frank S. Warren, supt.
"	"	"	White Granite Co., New York City, 547 W. Fourteenth st. N. G. White, pres.; J. E. Dutton, secy. and treas.; A. Le Poidevin, v.-pres. and mgr. Cap. stk. \$12,000. Green Island, granite. Steam.

STONE, MARBLE, GRANITE AND ONYX (CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND COUNTY.		
East Blue Hill Ry. 31.	Hancock	Dugdale, Stansfield & Co., Cap. stk. \$5,000.	Dugdale & Stansfield, granite. Open pit, 2,000 tons; hand.
Franklin Ry. 31.	Hancock	T. M. Blaisdell, East Franklin, Me., Cap. \$2,000.	Granite. 1,000 tons; horse.
"	"	W. B. Blaisdell, Cap. \$20,000.	Cape Elen, granite. Shaft and slope, 6,000 tons; horse.
"	"	Frank Bradbury, Cap. \$5,000.	Springer Hill, granite. Open pit, 3,000 tons; horse.
"	"	John P. Gordon, Cap. \$30,000.	Gordon's granite, 10,000 tons; horse and hand. Fred. A. Gordon, supt.
"	"	Joseph H. West, Taunton, granite, 2,500 tons; horse, D. E. Smith, supt.	
Gorham Ry. 308.	Cumberland	Gardiner D. Weeks, Cap. \$2,000.	Gorham, granite and marble. Mills.
Green's Landing, Hancock Ry. 31.	Hancock	James Clegg, Moose Island, granite.	2,000 tons; hand.
Hallowell, Ry. 31, 411.	Kennebec	Hallowell Central Granite Co., Cap. stk. \$75,000.	Hallowell, granite, 5,000 tons; steam. Joseph Arche, supt.
"	"	Hallowell Granite Works, J. F. Bodwell, prest., L. D. Merchant, secy., C. W. Tilden, treas., J. P. Hunt, mgr., Cap. stk. \$200,000.	Hallowell, granite. Slope and open pit, 15,000 tons; steam. B. J. Richards, supt.
Jay P. O. and Ry. North Jay 414.	Franklin	F. L. Billings, North Jay, Me., Cap. \$5,000.	North Jay, granite. Open pit, 12,000 tons; steam.
Jonesboro Ry. 31.	Washington	N. W. Fish, Cap. \$1,500.	Granite, paving. Horse, mill.
Jonesport Ry. 31.	Washington	Jonesport Red Granite Co., G. F. Mansfield, prest., H. H. Mansfield, secy., D. J. Sawyer, treas., W. O. Sawyer, mgr., Cap. stk. \$30,000.	Jonesport, red granite. Steam.
Limeville Ry. 31.	Waldo	T. H. Fernald, Camden, Me., Bath Grove, granite,	250 tons; steam.
Machias Port, Washington Ry. 31.	Machias	Machias Port Granite Co., F. E. Shaw, prest., N. S. Tobey, secy., A. J. Harmon, treas., W. R. Pattangall, mgr., Cap. stk. \$20,000.	Granite. Slope, steam. Benjamin Shaw, mgr., supt.
Marshfield, P. O. and Ry. Machias 31.	Washington	Levi E. Getchell, Machias, Me., Marshfield, granite,	Open pit, 90 tons; hand.
Millbridge Ry. 31.	Washington	Millbridge Paving Co., Jewel Gaty, prest., J. C. Harvey, secy. and treas., A. J. Fishett, mgr. and supt., Cap. stk. \$1,000.	White Rock, stone. Open pit, 2,500 tons; hand, mill.
Mount Desert Ry. 31.	Hancock	Brown & Freeman, J. P. Brown, mgr., Cap. \$5,000.	Brown & Freeman, granite. Slope, 10,000 tons; horse and hand. C. R. Joy, supt.
"	"	John J. Carr, Cap. \$20,000.	Carr's granite paving blocks. Open pit, 4,000 tons; horse.
"	"	Graves Bros., Cap. stk. \$2,000.	Granite, open pit, 2,000 tons; hand, mill.
"	"	Higgins & Graham, Cap. \$2,000.	Higgins & Graham, paving, 10,000 tons; horse. J. M. Higgins, supt.
"	"	Savage & Moore, Cap. \$5,000.	Brown's, granite. Open pit, 1,000 tons; horse and hand. R. Moore, supt.
"	"	Standard Granite Co., Somes Sound, granite,	25,000 tons; steam.
"	"	Whiting & Allen, Granite, 5,000 tons, O. Allen, supt.	
Norridgewock Ry. 983.	Somerset	Dodlin Granite Co., Waterville, Me., Wm. M. Ayer, prest., F. L. Welch, secy., L. S. Bangs, treas. and mgr., Cap. stk. \$20,000.	Dodlin Hill, granite. Open pit, 15,000 tons; steam and hand.
N Yarmouth, Cumberland Ry. 290, 411.	Cumberland	I. D. Freeman, Yarmouth, Me., Cap. \$10,000.	Freeman, granite. Open pit, 2,000 tons. Charles H. Knight, supt.
Norway Ry. 290.	Oxford	L. I. Howard Jr., Pike's Hill, granite.	Open pit; hand.
"	"	J. E. Long, 30 Pleasant St., Cap. \$5,000.	Longacre, granite. Open pit; hand.
Oxford Ry. 290, 410.	Oxford	J. P. & James Murphy, Lewiston, Me., Cap. stk. \$5,000, andy, Cap. \$8,000.	Granite. Open pit, 2,000 tons; steam, mills. J. P. Murphy, supt.
Red Beach Ry. 31.	Washington	Maine Red Granite Co., Calais, Me., Main St., F. B. Harvey, prest., O. S. Tarbox, secy. and mgr., C. H. Newton, treas., Cap. stk. \$30,000.	Red Beach, granite. Slope, 1,000 tons; water and steam, mills.
Rockland Ry. 31.	Knox	Booth Bros. & Harnegan Isle Granite Co., New York City, 60 Bank St., Wm. Booth, prest., J. Donaldson, secy., John Booth, treas., W. S. White, mgr. and supt., Cap. stk. \$250,000.	Harnegan Isle, granite. Open pit, 5,000 tons; steam, mills.
"	"	Spring Head Granite Co., 14 Water St., T. E. Hurley, prest. and treas., Wm. P. Hurley, mgr., Cap. stk. \$15,000.	Spring Head, limestone. Slope, 2,500 tons; steam, kiln, 40,000 brls.
Saint George, P. O. Rockland Ry. 31.	Knox	Booth Bros. & Harnegan Isle Granite Co., New York City, 60 Bank St., Wm. Booth, prest., J. Donaldson, secy., John Booth, treas. and mgr., Cap. stk. \$250,000.	Long Cove, granite. Open pit, 2,000 tons; steam, mills. W. S. White, supt.
"	"	Robinson & Gilchrist, Cap. \$15,000.	Eagle, granite. Open pit, 500 tons; horse.
South Thomaston, Ry. 31.	Knox	H. P. Babbe, Bath's, granite.	Open pit; horse.
"	"	N. C. Bassick & Sons, Cap. \$1,000.	Bassick's, granite. Open pit, 5,000 tons; horse. N. C. Bassick, supt.
S Turner, Androscoggin Ry. Rockfield 509.	Androscoggin	Wm. D. Bartlett local, Poplar Hill, granite.	Slope; hand, mill.
Sullivan Ry. 31.	Hancock	Hooper & Harvey, West Sullivan, Me., P. O. Box 191.	Granite. Open pit, 5,000 tons; horse.

STONE, MARBLE, GRANITE AND ONYX—(CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Sullivan	Hancock		C. A. Stinson.	Cap. \$40,000. Stinson, granite. Open pit, 500,000 tons; steam, horse; mill.
(Continued.)				
Swains Island, Ry., Ill.	Hancock		Goss & Small (local).	Granite. Slope, 14,000 tons; steam.
Vinal Haven Ry., Ill.	Knox		Booth Bros. & Hurricane Isle Granite Co., New York City, 60 Bank st.	Wm. Booth, prest.; John Donaldson, secy. and mgr.; John Booth, treas. Cap. stk. \$250,000. State Point, granite. Open pit, 25,000 tons; steam; mills. W. S. White, supt.
"	"		Crown Hill Granite Works.	J. P. Armbrust, mgr. Cap. \$20,000. Crown Hill, granite. Open pit, 10,000 tons; horse. Chas. Grant, supt.
"	"		Geo. Smith.	Cap. \$3,000. Diamond Rock, granite. Shaft, open pit, 48,000 tons; horse; mill.
Waldoboro Ry., Ill.	Lincoln		Waldoboro Granite Co.	W. B. Ludwig, prest.; E. T. Hodge, secy., treas. and supt. Cap. stk. \$9,000. Waldoboro, granite. Slope, 3,000 tons; hand.
Wayne Ry., North Leeds 414.	Kennebec		J. Frank Gordon.	Cap. \$3,000. Wayne, granite. Open pit, 150 tons; hand.
West Sullivan, Ry., Frenchman's Bay 31.	Hancock		Alexander Taylor & Son.	Hopewell, granite. Open pit, 15,000 tons; horse, hand. mill.
Whitefield Ry., Gardner 414.	Lincoln		E. C. Jewett.	Cap. \$3,000. Whitefield, granite. Open pit, 500 tons; horse; mill.
Yarmouthville, Cumberland Ry., Ill., 290.			Horace G. Ross.	Cap. \$3,000. Granite, 20,000 tons; horse, hand. mill.

SEE ALSO SUPPLEMENTARY LIST

MARYLAND

COAL—BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVESS, AND NAME OF MINE SUPERINTENDENT.
TOWN	AND	COUNTY.	
Bittinger Ry. W. Salisbury, Pa., 12.	Garrett	Michael Seeger (local). Cap. \$500. Glade Run. Open pit, 300 tons, hand.	
Bloomington Ry. 12.	Garrett	Andrew Mullen (local). Tunnel, 400 tons, hand.	
Friendsville Ry. 12.	Garrett	Benjamin F. Friend. Tunnel, 400 tons, hand.	
"	"	E. M. Friend (local). Copper Spring. Slope, 12 tons, hand.	
Frostburg Ry. 200.	Allegheny	Barton & Georges Creek Valley Coal Co., Baltimore, Md., 1 and 3 Chamber of Commerce. A Crawford Black, prest. John Wilson, secy. and treas., Owen Hutchins, mgr. Carlos, 200,000 tons.	
"	"	Big Vein Coal Co. of West Virginia, Baltimore, Md., 2 S. Gay st. Jacob H. Taylor, prest., Thos. W. Hooper, secy., Oliver F. Lantz, treas., James Little, mgr. and supt. Cap. \$tk. \$800,000. Big Vein. Tunnel, 70,500 tons, steam.	
"	"	Borden Mining Co., New York City, 70 and 71 West st. L. W. Lovell, prest., Chas. A. Greene, treas., Cap. \$tk. \$250,000. Bowery. Slope and drift, 35,500 tons. Steam and horse. D. Armstrong, resident agt.	
"	"	Consolidated Coal Co., Baltimore, Md., 41 South st. Charles F. Mayer, prest., J. K. Stuart, secy. and treas. Ocean Nos. 1, 2, 3, 4 and 5. Drifts and slopes, 1,000,000 tons. Steam, air and horse. Beverly S. Randolph, supt.	
"	"	J. B. Hunsel (local). Cap. \$1,500. Open pit, 300 tons, horse.	
"	"	Union Mining Co., Baltimore, Md., Chamber of Commerce. Lloyd Lowndes, prest., A. E. Burt, secy. and treas., John Sheridan, mgr. Cap. \$tk. \$300,000. Union. Slope, 200,000 tons. Steam and horse. Battis-son Brown, supt.	
Grantsville Ry. W. Salisbury, Pa., 12.	Garrett	Daniel Baker (local). Caselman. Tunnel, 100 tons, hand.	
"	"	Baker Mining Co., Samuel Baker, prest., J. C. Goffy, secy., O. E. Gougeley, treas., L. Kuntz, mgr. Cap. \$tk. \$100,000. Baker. Open pit, 10,000 tons, hand.	
"	"	Aaron Beachey (local). Cap. \$15,000. Beachey. Tunnel, 15,000 tons, hand.	
"	"	Lewis Hackman (local). Cap. \$10,000. Hackman. Open pit, 1,200 tons, hand.	
"	"	Levi Kausinger (local). Tunnel, 100 tons, hand.	
"	"	Andrew J. Stanton (local). Cap. \$500. Open pit, 1,000 tons, hand.	
"	"	W. T. Stanton. W. T. Stanton, prest., J. C. Goffy, secy., A. E. Gougeley, treas., Peter Healey, mgr. Cap. \$tk. \$10,000. Stanton. Open pit, 1,000 tons, hand.	
Lomaxcong Ry. 275.	Allegheny	American Coal Co., New York City, 1 Broadway. W. H. F. Wallbridge, prest., Selwyn Warringtonham, A. prest., Geo. M. Bowley, secy. and treas., Cap. \$tk. \$1,500,000. Jackson and Cabotiana. Drift, 500,000 tons, steam and horse. John H. Parrott, supt.	
"	"	Georges Creek Coal & Iron Co., Baltimore, Md., 2 and 3 Chamber of Commerce. Julian J. Alexander, prest. and mgr., Chas. W. Miller, secy. and treas., Cap. \$tk. \$750,000. Tunnel, 100,000 tons, horse and steam. E. L. Somerville, supt.	
"	"	Maryland Coal Co. of Allegheny County, New York City, 6 Broadway. J. F. Knapp, prest., J. W. Love-Edge, A. prest., H. B. Neidham, treas., Cap. \$tk. \$1,400,000. New Bethnold, Patton, Kingsland and Appleton. 400,000 tons, gravity and steam. F. E. Brackett, supt.	
"	"	New Central Coal Co., New York City, 1 Broadway. Henry S. Little, prest., Mahodin Baxter, A. prest. and secy., Rufus Riedgett, treas., Cap. \$tk. \$300,000. Keont. Slope, 200,000 tons, steam. Duncan Sinclair, supt.	
Oakland Ry. 12.	Garrett	Chamney Kunnell. Open pit, 500 tons, hand.	
"	"	B. F. Shafter (local). Shields Run. Slope, 150 tons, hand.	
Sellaspott Ry. 12.	Garrett	William H. Frazee (local). Open pit, 50 tons, hand.	
Western Port. Ry. 12.	Allegheny	A. J. Merrill. Cap. \$6250. Open pit, 500 tons, horse.	
P. O. and Ry. Piedmont, W. Va., 12, 563	Garrett	Franklin Consolidated Coal Co., Baltimore, Md., Chamber of Commerce. Bldg. John A. Boyce, prest. and mgr., W. N. Worley, secy. and treas., Cap. \$tk. \$500,000. Franklin and Phoenix. Flame. 200,000 tons, horse. P. E. Haldeeman, supt.	

FIRE CLAY

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.
TOWN	AND	COUNTY.	
Frostburg Ry. 200.	Allegheny	Savage Mountain Fire Brick Works, James G. Brown, secy., A. E. Gougeley, mgr. Cap. \$tk. \$200,000. Savage Mountain, fire clay. Slope, 15,000 tons, horse and hand.	

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
Rockville, Montgomery Ry. 42.	Columbian Mining & Milling Co., Reading, Vt. L. E. Read, pres., and mgt.; H. S. Pearson, secy., and treas. Cap. stk. \$500,000. Columbian, gold. Shaft and open pit; free; 10 stamps (developing).

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
Beltsville Prince George's Ry. 42.	Charles E. Coffin, Muirkirk Furnace, Md. Wm. Sher, mgt. Cap. \$7,500. Twanpudle, hematite. Open pit, 1,200 tons; free; horse; furnace.
Catoctin Furnace Fred'k Ry. 42.	Catoctin Mount Iron Co. Thomas Gorsuch, pres., mgt. and supt.; Harry P. Gorsuch, secy.; Geo. Honck, treas. Iron ore. Open pit, 30,000 tons; steam and horse.
Hanoverville Ry. 42.	G. W. Hobbs. Fossil ore. Open pit, 1,200 tons; hand.
" "	J. White. Open pit, iron; hand.
Muirkirk Prince George Ry. 42.	Fred Duvall. Cap. \$3,000. Iron ore. Open pit, 2,500 tons; horse; furnace.

MINERAL PAINT

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
Hanoverville, Howard Ry. 42.	Wilson & Bro. Paint ore. Open pit, 2,500 tons; horse.

SILICA

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.
TOWNS AND COUNTY.	
Dunkirk, Calvert Ry. Upper Marlboro 44.	New York Silicate Co., New York City, 40 and 42 Broadway. J. E. Franks, pres.; W. A. Weed, secy., and mgt. Cap. stk. \$100,000. Infusorial earth. Open pit, 3,000 tons; steam.

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILL, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
Baltimore Ry. 41, 42, 43, 528, 577, 504.	Henry Fox Clouds, 25 Jackson st. Cap. \$10,000. Olive Mills, black. Open pit, 6,000 tons; horse.
" Ry. 44.	John G. Schwund, 250 Rayner av. Cap. \$35,000. Calverton, gneiss, 40,000 tons; steam. John Boyling, supt.
" "	A. A. Wright, 7 N Calvert st. Cap. \$5,000. Stony Run, granite. Open pit, 11,000 tons; hand. Geo. Blucher, supt.
Cambria, Hartford (P. O. Beltsville, Md.) Ry. Cambria Station 41.	W. A. McLaughlin. Cambria, marble. Open pit; steam.
Capital View, Montgomery (P. O. Alexandria, Va.) Ry. 42, 602.	Consolidated Quarry Co., Washington, D. C., Room 5 Sun Bldg. H. P. Gilbert, pres.; J. C. Pratt, secy., and treas. Cap. stk. \$120,000. Capital View, Glen Echo, granite. Slope; steam, mill (developing).
Catoctin Furnace Fred'k Ry. 42.	D. M. S. MacPherson. Flint, 2,000 tons.
Co. J. Ry. 528 Baltimore	Beaver Dam Marble Co., Baltimore, Md., 704 Constitution st. Hugh Sisson, pres.; Edward C. Wilson, secy. and treas. Cap. stk. \$100,000. Beaver Dam, marble. Open pit, 30,000 tons; steam, mills. Thos. McDonnell, supt.
Elbert City Ry. 42	Werner Bros., Jacob J. Werner, pres.; Augustus Werner, secy.; Frederick Werner, treas.; Chas. J. Werner, Jr., mgt. Elbert City, granite. Open pit, 10,000 tons; horse, hand.
Gaithersburg Ry. 41.	James J. McCann. Granite. Open pit, mill.

STONE, MARBLE, GRANITE AND ONYX (CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERICKS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT	
TOWNS	COUNTY.		
Granite Ry., Woodstock 42.	Baltimore	Wm. E. Carey, Cap. \$20,000. Granite. Open pit, 1,000 tons; steam.	
"	"	Wm. F. Weller, Cap. \$25,000. Pickwick, granite. Open pit, 10,000 tons; hand and steam; mill.	
"	"	Woodstock Granite Co., Baltimore, Md., 700 W. Pratt st. Wm. A. Gault, pres., Matthew Gault, secy., treas. and mgr. Cap. \$10,000. Fox Rock, granite. Open pit, 5,000 tons; steam. John J. Evans, supt.	
Greenwood Ry., Summerfield 501	Baltimore	H. E. Shimp, Gunpowder, granite. Open pit, 1,500 tons; hand. John Chenoworth, supt.	
Mariottsville Ry. 42.	Howard	Maryland Soapstone Co., Tanapqua, Pa. John Weddy, pres., K. G. Weddy, treas. Soapstone, 6,000 tons, water.	
New Windsor Ry. 504.	Carroll	Michael McGuffrey, Myers, limestone, 400 tons; hand.	
Port Deposit Ry. 523, 577.	Cecil	McClanahan & Bro., Cap. \$100,000. Granite. Open pit, 72,000 tons; steam and horse.	
"	"	Port Deposit Granite Co., Camden, N. J. Richard L. Miller, pres. W. H. Ramsey, secy. D. R. Patterson, treas., Benjamin Kepner, v.-pres., mgr. and supt. Cap. \$100,000. Port Deposit, granite. Open pit, steam and hand, mill.	
"	"	Port Deposit Stone Co. of Harriet Co., Franklin Taylor, pres. Otha Newland, secy. and treas., Thos. W. Newland, mgr. Cap. \$100,000. Granite. Horse. Wm. P. F. wing, supt.	

SEE ALSO SUPPLEMENTARY LIST

MASSACHUSETTS

CORUNDUM

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.
TOWN AND COUNTY.	
Chesbet, .. Hampden Ry. 70.	Hampden Emery & Corundum Co., H. L. Lucas, pres't., N. A. Hartwood, treas., Cap. stk. \$300,000. Corundum, 1,200 tons; steam and water.

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Hawley .. Franklin P. O. and Ry. Charles- mont 201.	Forge Hill Mining Co., New York City, 35 Broadway, Wm. J. Sloane, pres't.; John F. Ruttman, secy. and treas.; Ferdinand S. Ruttman, mgt., Cap. stk. \$500,000. Forge Hill Iron Mine, magnetic, Shaft; steam, William Rogers, supt.
Richmond (Furn. Berkshire Ry. 70.)	Richmond Iron Works., George Church, pres't.; P. S. Barrall, secy.; R. A. Burget, treas. and mgt., Cap. stk. \$34,000. Cone, Lute & Bacon, brown hematite, Incline, shafts, 40,000 tons, steam; furnace.
Rowe .. Franklin P. O. and Ry. 181. Chilmark 201.	Davis Sulphur Ore Co., New York City, 45 Wall st., H. J. Davis, pres't. and mgt.; C. B. Stranahan, supt. and treas., Cap. stk. \$15,000. Shaft, 45,000 tons, steam.
W. Stockbridge (Berkshire Ry. Slate Line 70, 312)	Hudson Iron Co., Hudson, N. Y., John E. Gillette, pres't., S. R. Rainey, secy. and treas., S. C. McArthur, mgt., Chamney Lead Ore Mine, brown hematite, Shaft, 15,000 tons, steam, Chas. R. Van Huskirk, supt.
" .. "	Pomeroy Mining Co., Geo. Church, pres't.; Porter S. Barrall, secy.; R. A. Burget, treas. and mgt., Cap. stk. \$5,000. Pomeroy Mine, hematite, Slope, 25,000 tons, steam.
" .. "	Stockbridge Iron Co., A. C. Collins, pres't.; E. L. Baker, treas., Cap. stk. \$125,000. Lead Ore Bed, brown hematite, Shaft, 17,000 tons; steam, H. F. Thompson, supt.

MINERAL PAINT

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Tisbury .. Dukes P. O. and Ry. North Tisbury 31.	Vineyard Ocher Co., Boston, Mass., 26 India st., Cap. \$8,000. Red ocher, Open pit, 50 tons, water.

SALT

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
S. Dartmouth .. Bristol Ry. North Bedford 540.	Nathaniel Howland (local), Buzzard's Bay, salt, 130 tons, hand and evaporation.

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMESTONES AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Acton .. Middlesex P. O. North Acton Ry. 185, 540.	D. C. Harris, Cap. \$9,000. Marble and granite, Open pit, 1,000 tons, hand, mill.
Beverly .. Essex P. O. and Ry. Beverly Farms 71.	Connolly Bros., Cap. \$5,000. Connolly, granite, Open pit, 900 tons; hand and steam.
Brantree .. Norfolk Ry. 540.	Brantree Granite Co., Boston, Mass., 7 Exchange place, H. S. McKay, pres't., S. A. Lovejoy, secy. and treas., Cap. stk. \$7,000. Brantree, granite, 9,000 tons, steam.
Rockland .. Franklin P. O. and Ry. Shel- burne Falls 201.	Wright, Lyons & Co., Springfield, Mass., 13 Cooley Block, Main st., Frank Hyatt, mgt., G. G. Merrill quarry, gneiss, Slope, 2,500 tons, steam.

STONE, MARBLE, GRANITE AND ONYX (CONTINUED)

LOCATION OF MINE, OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Quincy	Norfolk	(Continued.)	Granite Railway Co., Boston, Mass., 166 Devonshire st.	Wm. B. Sewall, pres.; J. Albert Simpson, secy. and treas.; H. E. Sheldon, mgt. Cap. stk. \$250,000. Granite. Open pit; steam and electricity. W. B. Robertson, supt.
"	"	"	C. H. Hardwick & Co.	Granite. Steam; polishing mill.
"	"	"	Jones & Desmond.	Cap. \$5,000. Granite. Open pit, 75,000 tons; steam; mill.
"	"	"	McDonald & Turner.	Granite. Open pit. Geo. McDonald, supt.
"	"	"	McDonnell & Sons, Garfield st., P. O. Box 85.	Granite. Open pit, 3,000 tons.
"	"	"	Merry Mount Granite Co., 18 Water st.	John C. Kapples, pres.; Park W. Driscoll, treas.; John Lavers, mgt. and supt. Cap. stk. \$15,000. Merry Mount Quarry, granite. Open pit, 700 tons; steam; mill.
"	"	"	Milne & Chalmeys, Penn st.	Granite. 500 tons. Steam; mill.
"	"	"	Quincy Granite Co., F. J. Fuller, propr.	Open pit, 5,000 tons; steam; mill.
"	"	"	Alphonse Reinhalter, 116 Willard st.	Cap. \$12,000. Granite. Open pit, 20,000 tons; steam; mill.
"	"	"	O. T. Rogers Granite Co., W. H. H. Andrews, gen. mgt.	Cap. stk. \$20,000. Dark and light granite. Open pit, 1,550 tons; steam; mill. M. F. Wright, supt.
"	"	"	Townsend & Clements.	Cap. \$25,000. Granite. Open pit, 7,000 tons; steam.
Randolph, Ry. 549.	Norfolk		S. B. Corliss.	Randolph, granite. Open pit; hand; mill.
Rockport, Ry. 71.	Essex		Edwin Canney.	Granite. Open pit, steam.
"	"	"	Pigeon Hill Granite Co., Boston, Mass., 166 Devonshire st.	F. Scripture, propr. Cap. stk. \$8,000. Granite, 75,000 tons; steam; mill.
"	"	"	Rockport Granite Co., Geo. O. Sanborn, pres.; Chas. S. Rogers, treas. and mgt.	Cap. stk. \$200,000. Granite. Open pit, 10,000 tons; steam. Frank E. Foster, supt.
Uxbridge, Ry. 508.	Worcester		B. J. Blanchard.	Cap. \$10,000. Blanchard, granite. Open pit, 5,000 tons; steam.
Westford, Ry. 71, 185.	Middlesex		Charles M. Cummings.	Cap. \$4,000. Bond Quarry, granite. Open pit, 3,000 tons; horse.
"	"	"	H. E. Fletcher & Co.	Cap. \$15,000. Granite. Open pit, 14,000 tons; steam.
"	"	"	North Prescott.	Cap. \$5,000. Stone. 2,000 tons; horse and hand; mill.
"	"	"	Hammett D. Wright.	Cap. \$2,200. Granite, surface. 1,000 tons; hand.
W. Stockbridge, Berkshire Ry. 312.			Truesdell & Furey.	Cap. stk. \$12,000. Limestone. 7,500 tons; steam, two kilns, 4,500 tons.
Worcester, Ry. 71, 201, 508, 513, 830	Worcester		Webb Granite & Construction Co., 44 Front st.	Geo. D. Webb, pres.; Elliott K. Wheelock, secy. and treas. Cap. stk. \$200,000. Millstone Hill Quarry, stone. Open pit, 25,000 tons; steam; mill.

SEE ALSO SUPPLEMENTARY LIST

MICHIGAN

COAL--BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF FUEL USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT	
TOWNS	AND	COUNTY		
Eagle		Clinton	Thomas Jenkins (local), Grand Ledge, Mich. Cap. \$150. Shaft, 450 tons, hand.	
Grand Ledge		Lapeer	E. Boyle. Shaft, 282 tons, hand.	
Jackson		Jackson	R. H. Emerson & Co., Room 9, Allen Bennett Block, C. H. Higdon, mgr. Cap. \$14,000. Emerson Shaft, 30,000 tons, steam. John Robson, supt.	
"		"	Standard Mining Co., 118 N. Mechemie st. Chas. Gage, pres. T. B. Jones, treas., Robt. Gage, mgr. and supt. Standard. Shaft, 25,000 tons, steam.	
Schewering		Huron	Saginaw Bay Coal Co., Saginaw, Mich., Ledy Bldg. Wm. I. Webber, pres., James B. Peter, secy. and treas., Cap. stk. \$100,000. Saginaw. Shaft, 12,000 tons, steam. Lewis Stockell, supt.	
"		"	Schewering Coal Co., West Bay City, Mich. Spencer O. Fisher, pres., John F. Seeley, secy. and treas., W. I. Chappell, mgr. and supt. Cap. stk. \$75,000. Shaft.	

COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF FUEL USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT	
TOWNS	AND	COUNTY		
Adrian		Houghton	Atlantic Mining Co., New York City, 76 Wall st. Jos. L. Gay, pres., John Stanton, secy. and treas., T. McManis, mgr. and supt. Cap. stk. \$100,000. Atlantic, copper. Shafts, 25,000 tons, steam and electricity.	
Albion		Keweenaw	Albion Mining Co., New York City, 76 Wall st. Wm. C. St. art, pres., John Stanton, secy. and treas. Cap. stk. \$250,000. Albion, copper. Shafts, 1,250 tons, steam. Fred Smith, supt.	
"		"	Wolverine Copper Mining Co., New York City, 76 Wall st. John Stanton, pres., John R. Stanton, secy. and treas., Fred Smith, mgr. and supt. Cap. stk. \$75,000. Wolverine, copper. Shafts, 3,000 tons, steam.	
Cadnet		Houghton	Centennial Mining Co., E. B. Hinsdale, pres., D. T. Denison, treas., Johnson Vivian, mgr. and supt. Cap. stk. \$100,000. Centennial, copper. Shaft, steam.	
"		"	Kearsarge Mining Co., Boston, Mass. Thos. Nelson, pres., A. S. Bigelow, secy. and treas., J. D. Hasking, mgr. and supt. Cap. stk. \$1,250,000. Kearsarge, copper. Shafts, 1,200 tons, free steam.	
Clifton		Keweenaw	Cliff Copper Co., Boston, Mass., 7 Beacon st. D. D. Brockway, mgr. and supt. Cliff, copper. Shafts, steam.	
Copper Falls Mine		Keweenaw	Copper Falls Mining Co., Boston, Mass., 19 Exchange pl. David Stevens, pres., John Brooks, secy. and treas., J. H. Myle, mgr. and supt. Copper Falls. Tunnel and shafts, 120,000 tons, steam and compressed air, mill.	
Greenland		Ontonagon	Ridge Copper Co., Boston, Mass., 36 State st. Charles H. Andrews, pres., Philip Hagley, secy. and treas., Alfred Meigs, mgr. and supt. Cap. stk. \$200,000. Ridge, copper. Shafts, 50 tons, steam.	
Hancock		Houghton	Franklin Mining Co., Boston, Mass., T. H. Perkins, pres., D. T. Denison, secy. and treas., Graham Pope, mgr. Cap. stk. \$500,000. Franklin, copper. Shaft, 2,200 tons, steam.	
"		"	Quincy Mining Co., New York City, 52 Broadway. Thomas F. Mason, pres., Wm. Rogers Todd, secy. and treas., S. B. Harris, mgr. and supt. Cap. stk. \$1,250,000. Quincy, copper. Shaft, 6,000 tons, steam.	
"		"	St. Mary Copper Co., Boston, Mass., 18 Devonshire st. John C. Walters, pres., Frederick Beck, secy. and treas. Cap. stk. \$1,000,000. St. Mary, copper.	
Oscoda		Houghton	Oscoda Consolidated Mining Co., Boston, Mass., 109 Washington st. A. S. Bigelow, pres., Thomas Nelson, secy. and treas., John Danell, mgr. and supt. Cap. stk. \$1,250,000. Oscoda, copper. Shaft, 3,000 tons, steam.	
Red Jacket		Houghton	Tamarack Junior Mining Co., Boston, Mass., 109 Washington st. Albert S. Bigelow, pres., Thomas Nelson, secy. and treas., J. Danell, mgr. and supt. Cap. stk. \$1,250,000. Tamarack junior, copper. Shafts, steam.	
Rockland		Ontonagon	Minnesota Mining Co., Boston, Mass., 19 Congress st. H. J. Stevens, pres., D. T. Denison, secy. and treas., Benjamin Johns, mgr. and supt. Minnesota, copper. Shafts, steam.	
"		"	National Mining Co., Boston, Mass., 19 Congress st. W. C. Watson, pres., D. T. Denison, secy. and treas., B. F. Chynoweth, mgr. Cap. stk. \$500,000. National, copper. Shafts, 100 tons, steam.	
Shelton		Keweenaw	Central Mining Co., New York City, 76 Wall st. Joseph L. Gay, pres., John Stanton, secy. and treas., and mgr. Cap. stk. \$500,000. Central, copper. Shaft, 1,100 tons, steam. James D. Stanton, supt.	

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Ishteping	Marquette		Fire Centre Gold Mining Co., Milwaukee, Wis., 148 New Insurance Bldg., S. S. Curtz, presdt., H. S. Hasefort, secy., and treas.; J. McVehde, mgr., Cap. stk. \$20,000. Fire Centre, gold and silver. Shafts and open pit; free steam and horse mill.	
"	"		Gold Lake Mining Co., George Hayden, presdt., Chas. T. Fairbairne, secy. and treas.; A. B. Miner, mgr. Gold Lake, gold. Shaft, refractory; hand.	
"	"		Michigan Gold Co., Marquette, Mich., First National Bank, Chas. R. Sligh, presdt.; E. R. Dikeman, secy.; E. H. Towar, treas.; J. Parke Channing, v.-presdt., Cap. stk. \$1,000,000. Michigan, gold. Shafts; free steam. E. L. Zukoski, supt.	
"	"		Ropes Gold & Silver Co., Julius Ropes, presdt.; C. R. Ely, secy. and treas.; W. H. Rood, mgr., Cap. stk. \$2,000,000. Ropes, gold and silver. Shaft, 30,000 tons; free steam; 45 stamps. Geo. Weatherston, supt.	

GRAPHITE

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
L'Anse Ry, Taylor's June, 229.	Baraga		Lake Superior Graphite Co., Detroit, Mich., 540 River st., A. J. Boynton, presdt.; R. A. Parker, secy.; A. A. Boutell, treas. and mgr., Cap. stk. \$500,000. Open pit, 1,000 tons. R. R. Williams, supt.	

GYPSUM

LOCATION OF MINE, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Wyoming	Grand		Lorch Day, Cap. \$75,000. Michigan, gypsum. Open pit, 6,000 tons; water. Albert Medeno, supt.	

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Beacon	Marquette		Champion Iron Co., Boston, Mass., 37 Franklin st., Jos. S. Fay, presdt., W. F. Stone, secy. and treas.; A. Kidder, mgr., Cap. stk. \$500,000. Champion, bessemer. Shafts, 250,000 tons; steam. Walter Fitch, supt.	
Bessemer	Gogebie		Anvil Mining Co., Milwaukee, Wis., 79 Michigan st., Gage E. Farbell, presdt., E. A. Conrad, secy., Cap. stk. \$300,000. Anvil, hematite. Shafts, 100,000 tons; steam. D. A. Bennett, supt.	
"	"		East Dangle Iron Mining Co., Chas. Anderson, presdt., C. A. Hanscom, secy. and mgr., T. E. Mays, treas., Cap. stk. \$1,000,000. East Dangle, iron. Shaft, steam. Andrew Johnson, supt.	
"	"		Eureka Iron Mining Co., Cleveland, Ohio, Perry-Payne Bldg., James Corrigan, presdt. and mgr., F. T. Dye, secy. and treas., Eureka, iron. Shafts, 25,000 tons; steam. Jas. H. Pearce, supt.	
"	"		Lowell Iron Mining Co., Cleveland, Ohio, 164 Bank st., Stephen A. Jenks, presdt.; J. B. Zerbo, secy. and treas., M. W. Burt, mgr. and supt., Lowell, bessemer. Shaft, steam.	
"	"		Mikado Mining Co., Detroit, Mich., 64 W. Fort st., M. W. O'Brien, presdt., J. T. Keoma, secy. and treas., Cap. stk. \$1,000,000. Mikado, bessemer. Shaft, steam. M. P. O'Brien, supt.	
"	"		Pemokee & Gogebie Consolidated Mines, Cleveland, Ohio, Perry-Payne Bldg., Jos. S. Colby, treas., Cap. stk. \$4,000,000. Colby, Elden and Palms, bessemer, hematite. Shaft, 570,000 tons; steam. W. J. Oleff, supt.	
"	"		United Mining Co., Detroit, Mich., 33 W. Fort st., M. W. O'Brien, presdt., W. B. O'Brien, secy. and treas., Cap. stk. \$300,000. United, iron. M. P. O'Brien, supt.	
Champion	Marquette		Hortense Mining Co., Detroit, Mich., 115 Jefferson av., Joseph Trounstone, presdt., Seymour Brownell, secy. and mgr., Herman C. Fiedelmer, treas., Cap. stk. \$500,000. Hortense, ironstone. Shaft, 20,000 tons; steam. W. Fitch, supt.	
"	"		Phenix Iron Mining Co., Marquette, Mich., Peter White, presdt. and treas.; James E. Jopling, secy., Cap. stk. \$30,000. Phenix, ironstone. Shaft and open pit, steam.	
Clarksburg	Marquette		American Iron Co., Ishpeming, Mich., W. H. Johnston, presdt., C. R. Ely, secy., S. K. Wainbold, treas. and mgr., American, bessemer. Shaft, 40,000 tons; steam. S. K. Wainbold, supt.	
Cascade Falls	Iron		Armenia Mining Co., Milwaukee, Wis., New Insurance Bldg., Ferdinand Schlesinger, presdt., L. Kriegl-Schmuer, secy., William Schlesinger, treas., T. F. Cole, mgr., Cap. stk. \$300,000. Armenia, hematite. Shafts, steam.	
"	"		Claire Mining Co., Milwaukee, Wis., New Insurance Bldg., Ferdinand Schlesinger, presdt., L. Kriegl-Schmuer, secy., William Schlesinger, treas., T. F. Cole, mgr., Cap. stk. \$250,000. Claire, hematite. Shaft and open pit; steam (developing). S. C. Bennett, supt.	
"	"		Iron Star Co., Detroit, Mich., 12 Canham Bldg., James M. Tur not, presdt., V. K. Moore, v.-presdt., secy., and mgr., T. H. Newberry, treas., Cap. stk. \$200,000. Great Western, iron. Shaft, 100,000 tons; steam.	

IRON (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF FURNACE USED, BLAST FURNACE, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	COUNTY		
Crystal Falls..	Iron	Lamont Iron Co., Chicago, Ill., 100 Rookery Bldg., E. E. Crepin, pres., R. Floyd Clinch, secy., S. P. Farney, treas., Frank Scadden, mgr. and supt., Cap. \$1,500,000. Lamont, bessemer. Shaft, 75,000 tons, steam.	
"	"	Paint River Iron Co., Ashland, Wis., J. Staek, pres., M. R. Hunt, secy. and treas., Frank Scadden, mgr. and supt., Cap. \$1,500,000. Paint River, bessemer. Shaft, 85,000 tons, steam.	
"	"	York Iron Co., Milwaukee, Wis., New Insurance Bldg., Ferdinand Schlessinger, pres., L. Kneidshemer, secy., William Schlessinger, treas., T. F. Cole, mgr., Cap. \$1,500,000. Dunn, hematite. Shafts, 181,410 tons, steam. S. C. Bennett, supt.	
Humboldt..	Marquette	Foxdale Iron Mining Co., Ishpeming, Mich., 241 Douglas st., Thos. Buzzo, pres. and mgr., D. F. Wadsworth, secy., R. Maywell, treas., Cap. \$1,500,000. Foxdale, specular. Shaft, steam. O. Wills, supt.	
"	"	Samson Iron Mining Co., Chicago, Ill., 216 Phenix Bldg., Morris Sellers, pres., J. M. Sellers, secy. and treas., Richard A. Parker, mgr. and supt., Samson, specular and magnetite. Shaft, 22,000 tons, steam.	
Iron Mountain	Dickinson	Chapin Mining Co., Milwaukee, Wis., New Insurance Bldg., W. A. Hanna, pres., G. H. Kent, secy. and treas., Cap. \$1,500,000. Chapin, hematite, bessemer. Shafts, 50,000 tons, water and steam. Jas. MacNaughton, supt.	
"	"	Lundberg's Mining Co., A. A. Carpenter, pres., Francis A. Brown, secy., treas. and mgr., Cap. \$1,500,000. Lundberg, bessemer. Shaft, 15,000 tons, steam, hydraulic, compressed air.	
"	"	Marquette Iron Syndicate, Milwaukee, Wis., 104 Insurance Bldg., W. A. Severson, pres. and mgr., R. L. Douglass, secy., Cap. \$1,500,000. Antwerp, iron. Shaft, steam.	
"	"	Pewabic Co., Milwaukee, Wis., 307 E. Water st., Mack Block, G. D. Van Dike, pres., W. D. Van Dike, secy. and treas., Nelson F. Held, mgr., Cap. \$1,500,000. Pewabic, bessemer. Shaft, 73,125 tons, steam and compressed air. L. F. Brown, supt.	
Ironwood..	Gogebie	Ashland Iron Mining Co., E. A. Hayes, pres. and mgr., J. O. Hayes, secy. and treas., Ashland, iron ore. Shaft, 40,000 tons, steam. J. H. Taylor, supt.	
"	"	Antora Iron Mining Co., Cleveland, Ohio, Perry Payne Bldg., Jos. L. Colby, treas., A. L. Diekmann, mgr., Antora, North Antora and Vanolin, bessemer. Shafts, 20,000 tons, steam. W. J. O'Leary, supt.	
"	"	Metropolitan Iron & Land Co., Milwaukee, Wis., 118 New Insurance Bldg., S. S. Curry, pres. and mgr., H. S. Haseltine, secy., S. J. Pettit, treas., Cap. \$1,500,000. Norton, East Norton and Bald, bessemer. Shafts, steam. J. D. Day, supt.	
"	"	Newport Mining Co., Milwaukee, Wis., 111 H. Bottom, pres., C. F. Wade, secy., J. J. Gull, treas., F. W. Ogilby, mgr., Newport, bessemer. Shafts, steam. M. W. Ruff, supt.	
"	"	Pemoke & Gogebie Development Co., C. C. Colby, pres., J. L. Colby, treas., A. L. Diekmann, mgr., Comet, Palms, Elden, Colby, Antora and Superior, bessemer, hematite. Shaft, 100,000 tons, steam and air. W. J. O'Leary, supt.	
Ishpeming..	Marquette	Last New York Iron Co., S. K. Wambold, pres., C. E. Fly, secy., M. J. Lutho, treas., J. Parke Chamming, mgr. and supt., Cap. \$1,500,000. Last New York, bessemer and hematite. Shafts, 6,250 tons, steam.	
"	"	Lake Superior Iron Co., Boston, Mass., 28 State st., G. W. R. Matteson, pres., A. C. Tenney, secy., Jos. F. Fay, treas., Cap. \$1,500,000. Lake Superior, red specular. Shafts, 12,000 tons, steam. W. H. Johnston, supt.	
"	"	Pittsburgh & Lake Argonne Iron Co., Cleveland, Ohio, Perry Payne Bldg., Jas. Laughlin, Jr., pres., Wm. C. Pollok, secy. and treas., A. Kukul, mgr., Cap. \$1,500,000. Lake Argonne, bessemer. Shafts, 27,000 tons, steam. Thos. Walters, supt.	
"	"	Wentrop Iron Co., Cleveland, Ohio, Perry Payne Bldg., M. A. Hanna, pres., A. C. Saunders, secy. and treas., J. Braastad, mgr., Cap. \$1,500,000. Wentrop and Melbitt, hematite. Shaft, 12,000 tons, steam. C. L. Fairbairn, supt.	
Manistead..	Iron	Manistead Iron Mining Co., Chicago, Ill., 90 Phenix Bldg., W. S. Callahan, pres., C. H. Terry, treas., Cap. \$1,500,000. Manistead, iron ore. Shaft, 75,000 tons, steam. Louis Ascheimann, supt.	
Michiganmine	Marquette	Imperial Iron Co., Boston, Mass., 37 Franklin st., Wm. L. Stone, treas., Richard A. Parker, mgr., Imperial, hematite. Open pit and shafts, 10,000 tons, steam. J. C. Tremblay, supt.	
Negaunee..	Marquette	Buffalo Mining Co., Milwaukee, Wis., New Insurance Bldg., Ferdinand Schlessinger, pres., A. R. Gault, secy., Wm. Schlessinger, treas., T. F. Cole, mgr. and supt., Cap. \$1,500,000. Buffalo, hematite. Shafts, 75,500 tons, steam.	
Norway..	Dickinson	Appleton Mining Co., Chicago, Ill., 119 and 121 E. Salle st., Room 50, Wm. O'Brien, secy. and treas., Cap. \$1,500,000. Appleton, Little Ones, Loretto and Columbus, hematite and bessemer. Shaft, 80,000 tons, steam. Capt. James Bryant, supt.	
"	"	Aragon Mining Co., Milwaukee, Wis., 71 New Insurance Bldg., Angus Smith, pres. and treas., A. W. Wilkins, secy., P. Larsson, mgr. and supt., Cap. \$1,500,000. Aragon, bessemer. Shafts, 50,000 tons, steam.	
"	"	Findlay Mining & Exploring Association, Negaunee, Mich., Robert Findlay, pres., J. D. Campbell, secy. and treas., John Findlay, mgr. and supt., Cap. \$1,500,000. Findlay, bessemer iron ore. Shaft, steam developing.	
"	"	Valencia Mining Co., Milwaukee, Wis., 71 New Insurance Bldg., Angus Smith, pres. and treas., A. W. Wilkins, secy., Steam. P. Larsson, supt.	
Palmer..	Marquette	Platt Mining & Manufacturing Co., R. J. Whaley, pres., F. A. Platt, secy. and treas., Platt, bessemer. Shaft, Chas. F. Lawton, supt.	
"	"	Volunteer Iron Co., Detroit, Mich., Telegraph Bldg., Wm. C. Colburn, pres., J. C. McCall, secy. and treas., A. Kukul, mgr., Cap. \$1,500,000. Volunteer, iron. Shafts, 50,000 tons, steam. Thos. Walters, supt.	
Republic..	Marquette	Republic Iron Co., Cleveland, Ohio, 25 Wade Bldg., W. D. Rees, pres. and treas., W. D. Castle, secy. and treas., John Republic, mgr. and supt., Cap. \$1,500,000. Republic, specular and magnetite. Shaft, 25,000 tons, steam and water. Capt. Peter Pasco, supt.	
Richmond..	Marquette	Volunteer Iron Co., Detroit, Mich., Telegraph Bldg., Wm. C. Colburn, pres., J. C. McCall, secy. and treas., Cap. \$1,500,000. Volunteer, iron. Shaft, 100,000 tons, steam. Thos. Walters, supt.	

IRON (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Spurr Mountain Ry., Spurr 229.	Baraga		Spurr Iron Mining Co., Detroit, Mich. Wm. A. Moore, pres.; Wm. J. Gray, secy. and treas. Cap. stk. \$250,000. Spurr, magnetite. Shaft, steam.	
Stoneville Ry., 229.	Marquette		Saginaw Iron Mining Co., Saginaw, Mich. L. Tiltonson, pres.; C. H. Gage, secy.; F. C. Stone, treas.; T. H. Bargh, mgr. and supt. Saginaw, iron. Shafts, 4,000 tons; steam.	
Wakefield Ry., 449.	Gogebie		Brotherton Iron Mining Co., Milwaukee, Wis., 388 E. Water st. Joseph Sellwood, pres.; Edw. Niedecker, secy.; M. J. Suther, treas.; Jos. Sellwood, mgr. Cap. stk. \$2,000,000. Brotherton, hematite, bessemer. Shafts, 100,000 tons; steam. Richard Bowden, supt.	
"	"		Penokee & Gogebie Consolidated Mines, Cleveland, Ohio, Perry-Payne Bldg.; Joseph L. Colby, treas. Cap. stk. \$4,400,000. Superior and Comet, bessemer, hematite. 380,000 tons; steam. W. J. Olcott, supt.	
"	"		Sparta Iron Mining Co. P. H. Putnam, pres. and mgr.; F. N. Newton, secy.; M. A. Thayer, treas. Cap. stk. \$1,000,000. Sparta, iron. Shafts, 25,000 tons; steam. Capt. P. H. Byrnes, supt.	
"	"		Sunday Lake & Gogebie Co., Milwaukee, Wis., New Insurance Bldg. Ferdinand Schlessinger, pres.; L. Kneubshemer, secy.; William Schlessinger, treas. T. F. Cole, mgr. Cap. stk. \$100,000. Sunday Lake, hematite. Shafts, 72,300 tons; steam. John McLeod, supt.	

SALT

LOCATION OF MINE OR WELL, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Algonac Ry., 379.	St. Clair		Walton Salt Co. Albert Millen, pres.; Edgar Rexford, secy., treas. and mgr. Walton, fine. 18,000 brls.; steam. Wm. Boers, supt.	
Bay City Ry., 161, 262, 440.	Bay		F. E. Bradley, 401 N. Water st. Fine. 3 wells, 35,000 brls.; steam. Wm. Gilenan, supt.	
"	"		Dolson, Chapin & Co. Fine. Wells, 50,000 brls.; steam.	
"	"		Eddy, Avery & Eddy. 5 wells, 60,000 brls.; steam. F. H. Mason, supt.	
"	"		McLean & Co., 1209 S. Water st. Cap. \$150,000. Fine. 5 wells, 50,000 brls.; steam. John Kanall, supt.	
"	"		Michigan Pipe Co. S. A. Hill, pres.; Henry B. Smith, secy. and treas. Cap. stk. \$100,000. Coarse. 2 wells, 20,000 brls.; steam. M. F. Wilcox, supt.	
"	"		PHS & Cranage, Washington st. Fine. Wells, evaporation.	
Buena Vista Ry., Saginaw 222, 262, 379, 440.	Saginaw		Melchers & Nettereder, Saginaw, Mich. Cap. \$15,000. Fine. Well, 12,000 brls.; steam.	
Carrollton, Ry., 161, 262, 440.	Saginaw		A. T. Bliss, Saginaw, Mich., 321 N. Hamilton st. Fine. Wells, 125,500 brls.; steam. C. C. Cook, supt.	
"	"		E. C. Chapman. Shaft, 29,250 brls.; steam.	
Caseville Ry., 594.	Huron		Curran, Flach & Conley. Fine and coarse. 3,000 brls.	
Crow Island Ry., 262.	Saginaw		S. W. Tyler & Son, Saginaw, Mich., 6 Penny Bldg. Fine. Wells, 26,000 brls.; steam. D. H. Slater, supt.	
Eastlake Ry., 455.	Manistee		R. G. Peters Salt & Lumber Co. Michigan Trust Co., receiver. Coarse. 5 wells, 40,000 brls.; steam.	
Hampton Ry., O. Bay City Ry. 161, 262, 440.	Bay		J. R. Hall. Cap. \$80,000. Common and fine. 42,000 brls.; steam.	
"	"		W. B. Rouse, Essexville, Mich. Fine. Well, 32,000 brls.; steam.	
Landington Ry., 262.	Mason		Pere Marquette Lumber Co., cor. Main st. and Landington av. John Mason Loomis, pres.; F. J. Dowland, secy., treas. and mgr. Cap. stk. \$50,000. Fine. Wells, 100,000 brls.; steam. H. E. Freeman, supt.	
"	"		Thomas Percy. Cap. \$75,000. Coarse. Wells, 180,000 brls.; steam. Fred. L. McElroy, supt.	
"	"		Canfield Salt & Lumber Co. John Canfield, pres.; Frank W. Canfield, secy. and treas. Cap. stk. \$1,500,000. Fine. Wells, 140,000 brls.; steam.	
Manistee Ry., 262, 440.	Manistee		Canfield & Wheeler Co., Spruce and Water st. E. D. Wheeler, pres. and mgr.; F. W. Canfield, secy. and treas. Cap. stk. \$60,000. Coarse and fine. Well, 75,000 brls.; steam. E. R. Wheeler, supt.	
"	"		Eureka Lumber Co., 72 Arthur st. James Dempsey, pres.; Wm. Wente, secy. and treas. Cap. stk. \$25,000. Wells, 120,000 brls.; steam.	
"	"		Louis Sands. Cap. \$50,000. Fine. Well, 100,000 brls.; steam. Nath. Blizzard, supt.	
Marine City Ry., 260, 379.	St. Clair		Marine City Salt & Brick Works. John Mitchell, pres.; W. F. Sanber, secy., treas. mgr. and supt. Cap. stk. \$50,000. Marine City, fine. Wells, 75,000 brls.; steam.	
"	"		Marine City State Co. Samuel Heavenrich, pres.; R. B. Bloodgood, secy.; C. A. Calzin, treas. and mgr. Cap. stk. \$125,000. Marine City, common, fine, coarse. 90,000 brls.; steam.	
Oscoda Ry., 480.	Iosco		Gratwick, Smith & Fryer Lumber Co., Tonawanda, New York. Wm. H. Gratwick, pres.; Edward Smith, secy. and treas.; J. V. O'Brien, mgr. and supt. Cap. stk. \$500,000. Fine. 2 wells, 80,000 brls.; steam.	
"	"		Pack, Woods & Co., G. W. N. Pack, pres.; Edwin F. Holmes, secy. and treas.; Greene Pack, mgr. Cap. stk. \$100,000. Pack & Woods, fine. 20,000 brls.; steam.	

SALT (CONTINUED)

LOCATION OF MINE OR WELL, RAILWAYS, WATER ROUTES AND SHIPPING POINT			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS	AND	COUNTY	
Saginaw	.....	Saginaw	Bliss & Van Auker, 100 S. Niagara st., 10 wells, 10,000 tons.
Ry.	222, 223, 262, 379, 440.		
"	"	"	Brand & Hardin, 500 S. Water. Fine and common, 14,000 brls.; steam.
"	"	"	Briggs & Cooper. Cap. \$80,000. Common and fine, Well, 10,000 brls.; steam.
"	"	"	C. L. Grant & Co. Cap. \$20,000. Fine and coarse. Shaft, 15,000 brls.; steam. C. L. Grant, supt.
"	....	"	Green, Ring & Co. Fine, 4 wells, 6,000 brls.
"	"	"	D. Hardin & Co., 605 S. Water st. Fine. Well, 8,000 brls.; steam. H. P. Denison, supt.
"	"	"	N. Holland, foot of Alwater st. Fine, 4 wells, 4,000 brls.; steam.
"	"	"	Linton Manufacturing Co., cor. Jefferson av. and Eichel st., A. Linton, pres.; C. E. Linton, secy. and mgr.; W. S. Linton, treas. Cap. \$100,000. Common. Well, 30,000 brls.; steam. Peter Christian, supt.
"	"	"	Clas Merrill & Co. Cap. 10,000. Fine, 4 wells, 6,000 brls.; steam. Wm. J. Mason, supt.
"	"	"	Merrill & King. Fine. Wells, 2,000 brls.; steam.
"	"	"	W. B. Merdison & Co. W. B. Merdison, pres. and mgr.; Chester Brown, secy. and treas. Cap. \$125,000. Fine. Well, 3,000 brls.; steam.
"	"	"	Mieligan Dairy Salt Co. C. K. Libby & Son. Cap. \$125,000. Table dairy, 100,000 brls.; steam.
"	"	"	Mieligan Salt Co. Thos. C. Orange, pres.; A. G. Holland, secy.; C. A. Rust, treas. Cap. \$100,000. Common, fine, dairy. Wells, 30,000 brls.
"	"	"	Rust Bros. & Co. Cap. \$125,000. Coarse, 27,000 brls.; steam.
"	"	"	Simple & Camp. Common. Well, 15,000 brls.; steam.
St. Clair	.....	St. Clair	Diamond Crystal Salt Co. A. F. Moore, pres. and mgr.; B. R. Moore, secy. and treas. Cap. \$125,000. Diamond, fine. Well, 10,000 brls.; steam. John Clark, supt.
Ry.	379, 440.		
"	"	"	Thomson Bros. Front st. Cap. \$80,000. Coarse and fine. Wells, 75,000 brls.; steam. A. Memo, supt.
Sand Beach	.....	Huron	Huron Dairy Salt Co. Geo. W. Jenks, pres.; Chas. S. Nye, secy. and treas.; John G. Pinhook, mgr. and supt. Cap. \$125,000. Coarse and fine dairy. Well, 5,000 brls.; steam.
Ry.	262, 379.		
Stromach	.....	Manistee	Stromach Lumber Co. John Canfield, pres.; Wm. R. Thomson, secy. and mgr.; Cap. \$125,000. Fine and coarse. Wells, 100,000 brls.; steam.
Ry.	262, 380.		
Tawas City	.....	Iosco	Winona Salt and Lumber Co. John B. Fellows, pres. and mgr.; Geo. R. Kinn, secy. and treas. Cap. \$100,000. Winona, fine. Well, 2,000 brls.; steam.
Ry.	226, 380.		
West Bay City	.....	Bay	H. W. Sage & Co. Fine, 30,000 brls.; steam. W. M. Fletcher, supt.
Ry.	161, 262, 440.		
"	"	"	Carpenter & Co. Fine, 10,000 brls.; steam.
Zilwaukee	.....	Saginaw	Rust, Eaton & Co., Saginaw. W. S. Court st. Fine. Well, 10,000 brls.; steam. F. Statham, supt.
Ry.	161, 440.		

STATE

LOCATION OF QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF QUARRY, KIND OF STATE, KIND OF QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF QUARRY SUPERINTENDENT.
TOWNS	AND	COUNTY	
Arvon	.....	Baraga	Michigan Slate Co. James M. Turner, pres. and treas.; F. E. Robinson, secy.; C. M. Turner, mgr. and supt. Cap. \$100,000. Steam.
Ry.	229.		

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE, MILLS, TIMBERLANDS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS	AND	COUNTY	
Albion	.....	Iosco	Western Plaster Works, South Chicago. H. B. F. Smith, pres. and mgr.; B. W. McCausland, secy. and treas. Cap. \$100,000. Gypsum rock. Open pit; steam.
Ry.	440.		
Grand Stony City	.....	Huron	Cleveland Stone Co. Cleveland, Ohio. W. Shere Bid., J. M. Worthington, pres.; Geo. H. Worthington, secy. and treas. Cap. \$125,000. Gritstone, sandstone. Open pit, 42,000 tons; steam mill. James Nicholl, supt.
Ry.	Port Austin 262.		
Holland	.....	Ottawa	Waverly Stone Co. H. D. Post, pres.; H. H. Pope, v. pres.; W. J. Garrod, secy.; J. C. Post, treas.; F. C. Hall, mgr. Cap. \$15,000. Waverly, sandstone. Open pit, 23,155 tons; steam mill. John Strong, supt.
Ry.	152.		
Iola	.....	Monroe	N. Davis. Cap. \$15,000. Iola, limestone. Open pit; steam mill; 1,000 tons.
Ry.	384.		
Ishtepung	.....	Marquette	American Verde Antique Marble Co. M. E. A. Jew, v. pres.; W. A. Wiscus, supt.; C. M. Ketchum, pres.; M. W. Sherman, secy. and treas. Cap. \$100,000. Green marble. Steam. Capt. James F. Fennell, supt.
Ry.	156, 229.		
Jacobsville	.....	Houghton	First, New & Co. Chicago, Ill. 187-191 La Salle st. P. W. New, mgr.; Red and brown sandstone, 15,000 tons; steam mill. J. W. Weyland, supt.
Ry.	386.		

STONE, MARBLE, GRANITE AND ONYX (CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Jacobsville	Houghton	Portage Red Stone Co., Chicago, Ill., 189 La Salle St., J. S. Malone, pres.; E. T. Malone, secy.; John		
(Continued.)		Thomlinson, treas., Cap. stk. \$25,000. Portage Entry, red sandstone. Open pit, 25,500 tons; steam.		
		P. B. Parker, supt.		
L'Anse	Baraga	Detroit Brownstone Co., Detroit, Mich., 502 Hammond Block, Willard Pope, pres.; John Bissell, secy.;		
Ry., 229, 386.		Chas. T. Miller, treas.; Charles H. Little, mgr., Cap. stk. \$500,000. Brownstone. Open pit, 2,000 tons;		
		steam, mill. Wm. Corrie, supt.		
Marquette	Marquette	Furst, Neu & Co., Chicago, Ill., Room 42, 187 La Salle St., Peter W. Neu, mgr., Marquette Brown Stone,		
Ry., 141, 150, 386.		brown and red stone. Open pit, 14,000 tons; steam, mill. Peter Pichel, supt.		
Monroe	Monroe	Michigan Stone and Supply Co., Detroit, Mich., 40 W. Fort St., Gus F. Smith, pres. and mgr.;		
Ry., 383, 449.		Cameron Currie, secy. and treas., Cap. stk. \$100,000. Limestone. Open pit, 30,000 tons; steam.		
		James Anderson, supt.		
"	"	Michigan Stone & Supply Co., Detroit, Mich., 40 W. Fort St., Gus F. Smith, pres. and mgr.;		
		Currie, secy. and treas., Cap. stk. \$100,000. Blue-stone, limestone. Open pit, 50,000 tons; steam; 4		
		crushers. Frank C. Stevens, supt.		
Newtonville	Baraga	Michigan Red Stone Co., Chicago, Ill., 187 La Salle St., Peter A. Pichel, pres.; P. W. Neu, secy. and		
Ry., 329, 386.		mgr.; H. Furst, treas., Sandstone, 15,000 tons; steam. J. W. Wyckoff, supt.		
"	"	Portage Red Sandstone Co., Joseph D. Lloyd, pres.; Joseph H. Hillyer, secy., Chas. W. McFadden,		
		treas., Caleb T. LeTourneau, mgr., Cap. stk. \$100,000. Red sandstone.		
Rock River	Alger	Butler Brownstone Co., Marquette, Mich., Chas. Johnston, pres. and mgr.; Chas. C. Brown, secy., Geo.		
Ry., 229, 691.		Barnes, treas., Cap. stk. \$2,000,000. Butler, sandstone. Open pit, steam (developing). Bert F.		
		Froney, supt.		
"	"	Rock River Brownstone Co., Bay City, Mich., W. I. Brotherton, pres.; J. L. Stoddard, secy.; Geo. Barnes,		
		treas., H. X. Watrous, mgr., Cap. stk. \$500,000. Rock River, sandstone. Open pit, steam; mill (develop-		
		ing). S. F. Cook, supt.		
Windsor	Huron	Bay Port Quarries, Bay Port, Mich., Wm. L. Webber, pres., Bay Port, limestone. Steam; 4 kilns, 5,000		
(P. O. Bay Port Ry. 644.)		tons. Wm. H. Wallace, supt.		

SEE ALSO SUPPLEMENTARY LIST

MINNESOTA

COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Grand Marais Ry. 386.	Cook Grand Marais Copper Mining Co., Chicago, Ill., 2 Sherman st., Room 42. Henry P. Darlington, pres.; Geo. Emory, secy.; Frank Floyd, treas. and mgt. Cap. stks. \$2,000,000. Grand Marais, copper. Shaft and tunnel, hand.

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Grand Marais Ry. 386.	Cook North Shore Mining Co., Detroit, Mich., 16 Bank Chambers. Jas. G. Battelle, pres.; H. F. Eberts, secy. and treas. Cap. stks. \$1,000,000. North Shore, silver. Shaft, tree steam developing.
"	" Ancient Diggings Co., Sault Ste. Marie, Mich., 302 Portage av. Wm. P. Spalding, pres.; treas. and mgt. and supt., Lewis D. Kemp, secy. Cap. stks. \$1,000,000. Silver. Shaft and levels, tree steam developing.

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Duluth, Ry. 386, 591.	St. Louis Campbell Iron Co., St. Paul, 601 Pioneer Press Bldg. J. F. Campbell, pres.; Frank Barrett, secy. and mgt.; W. W. Braden, treas. Cap. stks. \$8,000,000. Campbell, bessemer. Shaft, 30,000 tons steam.
"	" Champion Iron Co., 601 Chamber of Commerce. R. H. Emery, pres.; H. C. Crawford, secy. and treas.; Chas. I. Howe, mgt. and supt. Cap. stks. \$8,000,000. Developing.
"	" Clark Iron Co., 121 Chamber of Commerce. M. J. Clark, pres.; M. W. Bates, secy.; John G. Williams, treas.; A. E. Cotton, mgt. Cap. stks. \$8,000,000. Clark iron. Shaft developing.
"	" Kakana Iron Co., 211 Merritt, pres.; R. T. Kinzie, secy.; E. Murphy, treas.; Geo. Fay, mgt. Cap. stks. \$1,000,000. Red hematite. Steam developing. T. J. Longvater, supt.
"	" Keowatin Iron Co., Room 6, 218 W. Superior st. Martin Patterson, pres.; Maron Reed, secy.; H. H. Groce, treas.; H. E. Spencer, mgt. Cap. stks. \$8,000,000. Keowatin, red hematite. Shaft steam developing. Silas Robinson, supt.
"	" Keystone Iron Co., 516 Palladio Bldg. Clinton Markell, pres.; F. R. Brown, secy.; H. W. Pearson, treas.; H. W. Chadler, mgt. Cap. stks. \$8,000,000. Shaft developing.
"	" Mesaba Chief Iron Co., 312, 313 Lyceum. T. A. Bolding, pres.; A. T. Crossley, secy. and treas.; J. C. Mishler, v. pres. Cap. stks. \$8,000,000. Mesaba Chief, hematite. Open pit. John Wallman, supt.
"	" North Star Iron Co., Baltimore, Md., 101 Second st. Bernard N. Baker, pres.; Ben. Whiteley, secy. and treas.; D. H. Merritt, v. pres. and mgt. Cap. stks. \$1,000,000. Developing.
"	" Ohio Mining Co., 505 Chamber of Commerce Bldg. Jas. T. Campbell, pres.; Fred Barrett, secy. and mgt.; T. H. Phiswell, treas. Cap. stks. \$8,000,000. Soft hematite. Open pit. 15,000 tons steam. Col. W. K. Wallace, supt.
"	" The Pennsylvania Iron & Steel Co. of Minnesota, 401 Lyceum Bldg. Wm. C. Bond, pres.; Frank M. Zeller, secy.; Samuel Clark, treas. Cap. stks. \$8,000,000. William Penn, hard and soft hematite. Open pit and shaft developing. T. W. Wood, supt.
"	" Sheridan Iron Co., 208 Burrows Bldg. R. H. Harris, pres.; C. J. Shannon, secy. and treas.; W. C. McComber, mgt. and supt. Cap. stks. \$1,000,000. Sheridan, red hematite. Shaft steam.
"	" Towanda Iron Co., 215 Chamber of Commerce. J. L. Hobb, pres.; C. S. Morrow, secy.; R. T. Hobb, treas.; John Sullivan, mgt. Cap. stks. \$8,000,000. Towanda iron. Open pit developing. T. H. Bond, supt.
"	" Washington Iron Co., 421 Chamber of Commerce. Hon. T. B. Mader, pres.; M. W. Bates, secy.; Wm. B. Miller, treas.; James A. Rogers, mgt. Cap. stks. \$8,000,000. Washington. Open pit developing. E. W. Barnes, supt.
Fly Ry. 530.	St. Louis Anderson Iron Co., Duluth, Minn., W. A. Sherwood, pres.; Charles J. Clement, secy. and treas.; James Gale, mgt. and supt. Cap. stks. \$1,000,000. Anderson Mine, bessemer. Shaft steam.
"	" Chandler Iron Co., Chicago, Ill., 101, Bookery Bldg. C. P. Collins, pres.; F. L. Merriman, secy.; H. S. Pickands, treas.; Joseph Sellwood, mgt. Cap. stks. \$1,000,000. Chandler, bessemer. Shaft, 30,000 tons steam.
"	" Pioneer Vermilion Iron Mining Co., Thomas Barlow, pres.; Wm. H. Phipps, secy. and treas.; Pioneer Mine, red hematite bessemer. Shaft, steam. T. J. Gilbert, supt.
Grand Rapids Ry. 530.	Itasca Mesaba Iron Mining Co., West Superior, Wis., 114 Power av. A. G. Bernard, pres.; Conway C. Wyatt, secy. and mgt.; H. DeWitt, treas. Cap. stks. \$1,500,000. Mesaba, red hematite. Steam.
La Prairie Ry. 536.	Itasca Buckeye Iron Co., St. Paul, Minn., 601 Pioneer Press Bldg. James F. Campbell, pres.; Frank Barrett, secy.; W. W. Braden, treas.; F. W. Griffin, mgt. and supt. Cap. stks. \$8,000,000. Buckeye and Diamond, bessemer. Open pit, steam.
"	" Columbus Mining Co., St. Paul, Minn., 601 Pioneer Press Bldg. Allen W. Hoffman, pres.; Frank Barrett, secy. and mgt.; W. W. Braden, treas. Cap. stks. \$2,000,000. Thurman, bessemer. Shaft, steam.

IRON (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
La Prairie, (Continued.)		Hasea	Hoch-Hoching Iron Co., St. Paul, Minn., 601 Pioneer Press Bldg., J. H. Baker, pres.; C. F. Nister, secy. and treas. Cap. stk. \$1,000,000. Lancaster, bessemer. Steam. J. H. James, supt.	
McKinley (P. O. Duluth)		St. Louis Ry. 230.	McKinley Iron Co., Duluth, Minn., 14 Exchange Bldg. Wm. McKinley, pres.; A. G. McKinley, secy. and treas., Duncan McKinley, mgr. and supt. Cap. stk. \$5,000,000. McKinley Mine, bessemer, soft hematite. Shaft, 100,000 tons.	
Merritt Ry. 230.		St. Louis	Bessemer Iron Co., Duluth, Minn., 33 Exchange Bldg. Geo. H. Claypool, pres.; Edward C. Jones, secy.; Wm. B. Silory, treas.; L. J. Hopkins, mgr. Cap. stk. \$3,000,000. Bessemer. Shaft and tunnel (developing). E. H. Jones, supt.	
"		"	Chicago Iron Co., Duluth, Minn., 703 Palladio Bldg. O. D. Kinney, pres.; P. S. Bemis, secy.; J. T. Hale, treas.; Jas. Billings, v. pres. and mgr. Cap. stk. \$5,000,000. (Developing.) N. F. Johnson, supt.	
"		"	Cincinnati Mining Co., Duluth, Minn., 605-610 Lyceum Bldg. Jas. T. Hale, pres.; Frank Cox, secy.; Morris O. Brooks, treas. Cap. stk. \$3,000,000. Cincinnati, bessemer. Open pit; steam (developing). F. Florida, supt.	
"		"	Hale Iron Co., Duluth, Minn., 211 Chamber of Commerce. Jas. T. Hale, pres. and mgr.; Jesse Norton, secy.; R. T. Hale, treas. Cap. stk. \$3,000,000. Hale, bessemer. Open pit (developing). E. Florida, supt.	
"		"	Iron Cliff Mining Co., Duluth, Minn., 212 Palladio Bldg. Henry Keller, pres. and treas.; John R. Holmes, secy.; Edgar Brown, mgr. Cap. stk. \$3,000,000. Iron Cliff, red hematite. Shaft's, steam. Edgar Brown, supt.	
"		"	P. L. Kibberly, Sharon, Pa. Biwabik, bessemer. Open pit. Steam.	
"		"	Towanda Iron Co., Duluth, Minn., 217 Chamber of Commerce. J. T. Hale, pres.; C. S. Morrow, secy.; R. T. Hale, treas.; John Sullivan, mgr. and supt. Cap. stk. \$3,000,000. Towanda, bessemer. Open pit, hand.	
Mesaba Ry. 230.		St. Louis	Aurora Iron Co., Duluth, Minn., 703 Palladio Bldg. Geo. N. Bissell, pres.; P. S. Bemis, secy. and treas.; James Billings, mgr. Cap. stk. \$3,000,000. Aurora, W. A. Brundott, supt.	
"		"	Biwabik Mountain Iron Co., Duluth, Minn., Fargoan Bldg. Leonidas Merritt, pres.; E. H. Hall, secy. and treas.; John E. Merritt, mgr. Cap. stk. \$3,000,000. Biwabik, bessemer. Open pit. John G. Cohee, supt.	
"		"	Great Northern Mining Co., Duluth, Minn., 503 and 504 Palladio Bldg. Alfred Merritt, pres.; G. L. Robbins, secy.; E. T. Merritt, treas.; J. A. Nichols, mgr. and supt. Cap. stk. \$3,500,000. Shaft and open pit; steam (developing).	
"		"	Iron Belt Mining Co., Duluth, Minn., 419 Lyceum Bldg. Cap. stk. \$1,000,000. (Developing.)	
"		"	Lake Superior Iron Co., Duluth, Minn., 419 Lyceum Bldg. W. F. Mattes, pres.; A. J. Trimble, secy.; Peter Deys, treas.; Frank Hibbing, mgr. Cap. stk. \$5,000,000. (Developing.)	
"		"	Little Mesaba Iron Co., Minneapolis, Minn., 421 425 Lumber Exchange. R. W. Cavanaugh, pres.; E. F. Dodge, secy. and treas.; Geo. H. Dodge, mgr. Cap. stk. \$3,000,000. Red hematite, bessemer (developing).	
"		"	Mesaba Iron Co., Duluth, Minn., 402 W. Superior st. Alex. Ramsey, pres.; W. W. Spalding, secy. and treas. Cap. stk. \$3,000,000. Magnetic and hematite (developing).	
"		"	Oneota Iron Mining Co., Duluth, Minn., 302 Palladio Bldg. F. W. Merritt, pres.; Grant Wyatt, secy.; E. F. Clarke, treas.; John Fraser, mgr. and supt. Cap. stk. \$1,500,000. Oneota, red hematite. Shaft; hand (developing).	
"		"	Republic Iron Co., Duluth, Minn., 45 Fargoan Bldg. P. M. Grant, pres.; F. W. Eaton, secy.; John G. Brown, treas. Cap. stk. \$3,000,000. Republic, hematite. Open pit. R. H. Fagan, supt.	
"		"	Shaw Iron Co., Duluth, Minn., 518 Chamber of Commerce. Alfred Merritt, pres.; A. J. Taleon, secy.; A. R. Merritt, treas.; Capt. J. Carbis, mgr. and supt. Cap. stk. \$3,000,000. Shaw, red hematite, soft (developing).	
"		"	The Swedish American Iron Co., Duluth, Minn., C. A. Smith, pres.; N. A. Linderberg, secy.; John Peterson, treas. and mgr. Cap. stk. \$2,000,000. (Developing.)	
Morse (Not a P. O. Ry. Ely 230.		St. Louis	Central Vermillion Iron Co., St. Paul, Minn. Albert Schetter, pres.; C. W. Cox, secy. and mgr.; Edward J. Hodgson, treas. Cap. stk. \$800,000. Central Vermillion. Shaft, 70,000 tons; steam.	
Tower Ry. 230.		St. Louis	Nebewah Iron Co., Duluth, Minn., 115 and 117 E. Superior st. Christian H. Oppel, pres.; mgr. and supt.; Herman H. Oppel, secy. and treas. Cap. stk. \$2,000,000. Nebewah, hard ore. Shaft and tunnel (developing).	

MANGANESE

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT	
TOWN	AND	COUNTY		
Monticello Ry. 230.		Wright	J. N. Stacy & Co., J. N. Stacy, pres. and mgr.; Arthur S. Stacy, secy. and treas. Cap. \$5,000. Monticello, black oxide of manganese. Open pit (developing).	

STONE, MARBLE, GRANITE AND ONYX

TOWNS AND COUNTIES	LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINTS	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
Duluth Ry. 386.	St. Louis	Duluth Brown Stone Co., Room 7 Exchange Bldg., John H. Crowley, pres., and mgt., W. W. Davis, secy., and treas.; Cap. \$tk. \$30,000. Sandstone, open pit, 17,500 tons, horse. Peter Chelbred, supt. (quarry in Douglas county, Wis.)	
Jasper Ry. 87, 205, 115.	Pipe Stone	Souix Valley Stone Co., J. M. Poorbaugh, pres., and mgt., J. M. Beckel, secy., C. J. Joy, treas.; Cap. \$tk. \$1,000,000. Jasper, Pipestone, Garrettsen and Bayfield Quarries, gray granite; Slopes, 40,000 tons, steam, polisher and crusher. C. W. Boaslaugh, supt.	
Kasota Ry. 143, 150.	Le Sueur	C. W. Babcock & Co., Cap. \$75,000. Kasota, pink limestone, 35,000 tons, mill.	
"	"	Matt. Green Stone Works, St. Paul, Minn., 64 and 65 Germania Life Ins. Bldg. Thos. M. Green, prop., Cap. \$60,000. Kasota, limestone. Open pit, 20,000 tons. Steam, mill. David O. Alexander, supt.	
Little Falls Ry. 529.	Morrison	Fordis Averil, Little Falls granite quarry, granite. Horse, mill.	
N. Sioux Falls Ry. 87, 133	Pipe Stone	North Sioux Falls Stone Co., Sioux Falls, S. Dak., Mulhall Bldg., T. B. McMartin, pres., W. G. McKennan, secy., treas., and mgt.; Cap. \$tk. \$100,000. North Sioux Falls Stone Quarry, Jasper. Open pit, steam. E. H. Gates, supt.	
"	"	Northern Stone Co., Chicago, Ill., 56 Chamber of Commerce Bldg. Wm. F. Reynolds, pres., Lewis Reynolds, secy., Chas. Reiterman, treas.; Cap. \$tk. \$80,000. Northern, Jasper stone. Open pit and slope, 30,000 tons. Steam.	
Ortonville Ry. 141.	Big Stone	James Baxter & Son, Minneapolis, Minn., 285 Aldrich av., S. Cap. \$50,000. Ortonville Red Granite Quarry, red granite. Slope, 60,000 tons, steam, mill.	
Pipe Stone Ry. 87, 141, 143, 205.	Pipe Stone	Pipe Stone Quarry Co., L. H. Moore, pres. H. T. Corbett, secy. and treas. J. Moore, mgt. Stone. Open pit, hand and horse.	
Red Stone P. O. and Ry. New Ulm 159.	Nacolee	New Ulm Stone Co., Otto Shel, secy., Jacob Penninger, treas.; Werner Biesch, mgt. Cap. \$tk. \$10,000. Red Stone Quarry, granite. Open pit, 300 tons, hand. Christ Heidenreich, supt.	
St. Cloud Ry. 296, 529, 721.	Stearns	Anderson & Co., John Anderson, pres.; Fred Bowditch, secy.; Louis Heroldstad, treas.; Bent Forwing, mgt.; Cap. \$tk. \$8,000. Only cap. \$2,000. Gray granite, 1,000 tons, horse.	
"	"	Drake & Co., St. Paul, Minn., 65 Drake Bldg., Drake, red granite. Open pit, steam and horse, mill.	
"	"	A. Gustafson. Granite. Open pit, horse.	
"	"	G. J. Hilder, P. O. Box 301. Cap. \$5,000. Granite. Open pit, 800 tons, steam, horse.	
"	"	Hobbs Bros., Cap. \$7,000. Red Block Granite Quarry, red granite. Open pit, horse.	
"	"	Matt. Green Stone Works, St. Paul, Minn., 64 and 65 Germania Life Ins. Bldg. Thomas M. Green, prop. Cap. \$60,000. St. Cloud, granite. Open pit, 20,000 tons, steam, mill. John Clark, supt.	
"	"	Minnesota Granite & Polishing Co., Minneapolis, Minn., 535 Boston Bldg. Cap. \$25,000. Granite. Steam, mill.	
"	"	Minnesota State Refractory. D. E. Myers, supt. Minnesota State Refractory Quarry, red and gray granite.	
"	"	St. Cloud Granite Co., 57 Nineteenth av. N. Daniel Larson, secy.; Samuel J. Dowley, treas.; Cap. \$tk. \$7,000. St. Cloud Granite Co. Quarry, pink granite. Open pit, 300,000 tons, horse.	
Smoked Limest. P. O. and Ry. Retview 156.	Redwood	Rock Valley Granite Co., Minneapolis, Minn., 24 Chamber of Commerce Bldg. L. D. Welsh, mgt. Rock Valley, granite. Open pit, mill.	
Wadena Ry. 144	Dodge	Wadena Stone Co., Doug. Center, Minn., Platanus A. Day, pres.; W. R. Parsons, secy. and treas.; C. A. Green, mgt. Cap. \$tk. \$30,000. Limestone. Slope, 30,000 tons, horse. C. W. Harter, supt.	

SEE ALSO SUPPLEMENTARY LIST

MISSISSIPPI

STONE, MARBLE, GRANITE AND ONYX

TOWNS AND COUNTIES	LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINTS	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
Vicksburg Ry. 406, 458, 582.	Warren	Gumming Gravel Paving Co., J. H. Gumming, pres.; Geo. H. Riggs, secy. and treas.; Jas. P. Bell, mgt. Cap. \$tk. \$30,000. Gravel, mill. Open pit, steam and hand, day, and night.	

MISSOURI

BARYTES

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Blackwell	St. Francois	Hawkins & McGready.	Cap. \$100,000.	Barytes.
Ry. 714.				
Osage City	Cole	R. M. Marshall, Tuscomb, Mo.	Barytes.	Slope, 2,000 tons, hand.
Ry. 461.				
Spring Garden	Miller	E. A. Becker.	Barytes.	Open pit, 2,500 tons, horse; hand. T. Gaither, supt.
Ry. 490.				

COAL—BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Amoret	Bates	Blue Lick Coal Mining Co., Kansas City, Mo., 5 Bunker Bldg.	Cap. \$1,000.	Crescent, Oak Ridge. Slope, open pit, 60,000 tons, horse. George W. Bozzell, supt.
Ry. 352.				
"	"	Hooker Co., Brayton.	Open pit, 1,700 tons, horse, steam. I. B. S. Dunn, supt.	
Armadillo	Iron	S. E. Marshall (local).	Cap. \$200.	Peacock coal. Open pit, hand.
Ry. 460.				
Arrow Rock	Saline	Frank Alexander (local).	Flat Creek.	Open pit, 200 tons.
Ry. 461.				
Arthur	Vernon	Frank Williams & Co.	Cap. \$8,000.	Arthur. Open pit, drift, 11,000 tons; horse. Frank Williams, supt.
Ry. 460.				
Aulaville	La Fayette	E. P. Crumphy.	Cap. \$1,000 (local).	Aulaville. Slope, 240 tons, hand.
Ry. 460.				
"	"	S. J. Fitzgerald.	Cap. \$1,000.	Slope, 300 tons; horse.
Beyer	Marion	Beyer Black Diamond Coal Co., W. H. Loomis, prest. and secy., W. S. Watson, treas. and mgr.	Cap. \$100,000.	Beyer Black Diamond. Shaft, 9,500 tons, steam. L. Bradford, supt.
Ry. 305.				
"	"	Loomis Coal Co., W. H. Loomis, prest. and mgr., L. J. Loomis, secy. and treas.	Cap. \$100,000.	Shaft, 200,000 tons, steam. Thomas Francis, supt.
"	"	Oakdale Coal & Mining Co., St. Joseph, Mo., 108 S. Seventh st.	J. W. Atwill, prest., treas. and mgr., C. F. Atwill, secy.	Cap. \$15,000.
"	"	Watson Coal Mining Co., W. S. Watson, prest. and treas., E. F. Bennett, secy., J. W. Watson, mgr. and supt.	Cap. \$15,000.	Shaft, 36,000 tons, steam.
Birch City	Bates	Bates County Cooperative Coal Co., Amoret, Mo.	N. Wallace, prest., S. P. Denning, secy., J. C. Rankin, treas.	Cap. \$10,000.
(P. O. Amoret) Ry. 352.				Shaft, 30,000 tons, steam. W. H. Grisehede, supt.
Blackbird	Putnam	Blackbird Coal Co., C. W. Lane, prest., Geo. W. Jordan, secy. and treas., Wm. Love, mgr. and supt.	Cap. \$10,000.	Shaft, 8,000 tons, steam.
Ry. Unionville 133.				
Boonville	Cooper	Missouri Valley Coal & Mining Co., J. E. Andrews, prest., C. J. Burger, secy., treas. and mgr.	Cap. \$15,000.	Missouri Valley. Shaft, 5,000 tons, steam. J. Rehn, supt.
Ry. 429, 460.				
Boston	Barton	Ephraim Stucky (local).	Open pit, 60 tons, hand, horse.	
Ry. 460.				
Brounagh	Vernon	J. C. Lucas.	Cap. \$2,000.	Vernon. Open pit, 3,500 tons, horse, hand. L. M. Lucas, supt.
Ry. 460.				
Brookfield	Lincoln	Bernard Schneider (local).	Cap. \$1,200.	Schneider. 1,535 tons, horse.
Ry. 305.				
Brownington	Henry	Dunlap Coal Co., R. P. Dunlap, secy.	Shaft, open, 450,000 tons, horse.	John White, supt.
Ry. 353.				
Brown's Station	Boone	Isaac R. Day (local).	Open pit, 10 tons, hand.	
Ry. 784.				
Brush Hill	Johnson	George W. Strickland (local).	Tunnel, 102 tons, hand.	
(P. O. Dunksburg) Ry. La Monte 460.				
Bunceton	Copper	A. Palmberg (local).	Cap. \$10,000.	Stephens. Shaft, 3,000 tons, horse.
Ry. 460.				
Callison	Henry	Baldwin & Fonda, A. P. Fonda, prest., James Leunitz, secy., Henry Baldwin, treas.	Cap. \$10,000.	Cedney. Shaft, 50,000 tons, steam. John Chalm, supt.
Ry. 460.				
Cambden	Ray	Boyard-Brown Coal Co., Kansas City, Mo., 2114 Grand av., Benjamin Lusk, prest. and treas., J. Q. Brown, secy., Geo. H. Lockwood, mgr.	Cap. \$15,000.	No. 3. Shaft, 1,500 tons, steam. W. H. Teegardin, supt.
Ry. 26, 784.				
"	"	William Hensley (local).	Cap. \$500.	Craven. Shaft, 500 tons, steam.
"	"	Richmond Coal Co., Richmond, Mo., J. S. Hughes, prest., H. M. Hughes, secy., G. A. Hughes, treas.	Cap. \$10,000.	Cambden. Shaft, 75,000 tons, steam. John Gibson, supt.

COAL BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Carbon Center		Verdon	E. N. Hurst (local). Cap. \$1,500. Baryham. Open pit, 50 tons, hand. J. E. Salsman, supt.	
"		"	Salsman & Scott. Cap. \$1,000. Carbon. Open pit, 6,000 tons, hand. J. E. Salsman, supt.	
Cedarville		„Dade	William Brown (local). Cap. \$1,000. Shoemaker. Slope, open pit, 600 tons, hand.	
Centralia		„Boone	Henry Oldham. Scullick. Shaft, 500 tons, horse.	
"		"	Wiley & Sons (local). Shaft, 400 tons, horse. Frank Wiley, supt.	
Clinton		„Henry	B. L. Owen. Cap. \$500. Shaft, 1,250 tons, horse.	
Coalville		Schuyler	W. F. James, P. O. Box 775. Cap. \$10,000. Slope. C. C. Cox, supt.	
"		"	A. Mock & Bros. (local). Cap. \$200. Tunnel, 120 tons, hand.	
Columbia		„Boone	B. S. Benedict (local). Slope, 1,200 tons, hand, horse.	
"		"	James W. Gauthier. Cap. \$1,000. Drift, open pit, 500 tons, hand.	
"		"	W. A. Goodding (local). Cap. \$1,000. Shaft, 4,500 tons, horse. Leach Morgan, supt.	
"		"	D. W. R. Kurtz (local). Slope, 800 tons, horse.	
Concordia		La Fayette	A. E. Kresse (local). Slope, 500 tons.	
Corder		La Fayette	Corder Coal & Coke Co. F. M. Gray, pres.; H. G. Smith, secy. and supt. A. L. Alsbury, treas. Cap. \$1k, \$50,000. Corder. Shaft, 30,000 tons, steam.	
Cretcher		„Saline	Esther Pittman (local). Slope, hand.	
"		"	A. Van Buskirk (local). Tunnel.	
Danforth		„Adair	Pennsylvania Coal Co., Karksville, Mo. H. C. McCallum, mgt. Danforth. Shaft, 10,000 tons, steam. John Dawson, supt.	
Deepwater		„Henry	W. S. Dukey Clay Mfg. Co., Kansas City, Mo. 300 New York Life Bldg. W. S. Dukey, pres.; K. L. Dukey, secy.; A. F. Dukey, mgt. Slope, 30,000 tons, steam, electricity.	
"		"	J. W. Hurst. Cap. \$2,000. Cooper Creek. Slope, shaft, 5,000 tons.	
"		"	Keith & Perry Coal Co., Kansas City, Mo. 60 Walnut St. R. H. Keith, pres.; T. F. Riley, secy.; David Mackie st. treas. and supt. John Perry v. pres. and mgt. Cap. \$1k \$500,000. Shafts, 150,000 tons, steam.	
Dover		La Fayette	Dover Coal Co., Lexington, Mo. Elton Davis, pres.; treas. and mgt. H. McLaughlin, secy. Cap. \$1k \$100,000. Dover. Drift, 20,000 tons, hand.	
Dunksburg		„Pettis	Thomas Seaman (local). Open pit, 200 tons, hand.	
Eldon		„Miller	C. B. Rindham (local). St. Louis, Mo. 629 North 8th and st. Eldon. Slope, 15 tons, horse. Louis Rusk, supt.	
Elko		„Putnam	Martin Pierogo (local). Tunnel, 52 tons, hand.	
Elston		„Cole	George H. Lench. Cap. \$15,000. Elston. Shaft, 2,000 tons, horse.	
Estrom		„Barton	O. C. Blacker (local). Open, 500 tons, horse.	
Foster		„Bates	A. Skillman. Open pit, 7,500 tons, horse and hand.	
"		"	Western Coal & Mining Co., St. Louis, Mo. 34th and Locust sts. T. W. McCord, pres.; D. S. H. Smith, secy. and treas.; R. M. McDowell, v. pres. and gen. mgt. Cap. \$1k \$100,000. No. 3. Shaft, slope, 150,000 tons, steam. W. B. Williams, supt.	
Fulton		„Callaway	Win Castle (local). Cap. \$1,000. Slope, 10,000 tons, hand.	
"		"	A. Harris & Co. Cap. \$7,000. Crows. Shaft, 4,272 tons, horse.	
"		"	John Harris. Cap. \$1,000. Shaft, 20,000 tons, horse.	
"		"	A. Holmes (local). Cap. \$800. Tunnel, 2,000 tons.	
"		"	Samuel Maycock (local). Cap. \$200. Carbon Valley. Drift, 1,000 tons, horse.	
"		"	James Smith. Cap. \$15,000. Tunnel, 4,000 tons, horse.	
Guthrie		„Callaway	R. M. Henderson (local). Criswell. Tunnel, 4,000 tons, hand.	
Hamilton		„Caldwell	Caldwell Coal Co., E. B. Hayden, pres.; C. A. Dedrick, secy. and treas. Win. Hall, mgt. v. supt. Cap. \$1k \$50,000. Caldwell. Shaft, 24,000 tons, steam.	
"		"	Hamilton Coal Co., R. S. Cash, pres.; Ralph Booth, secy.; John N. Martin, treas. Cap. \$1k \$25,000. Tom Creek. Shaft, 18,000 tons, steam. Joseph McQuitt, supt.	
Hardin		„Ray	Fred Buehlinger (local). Kellenburger. Tunnel, 88 tons, hand.	
"		"	H. A. Jackson & Son (local). Northern. Shaft, 10,000 tons, horse.	

COAL—BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Hardin	Ray	Joseph Hinton (local). Hardin. Drift, 20 tons; hand.		
"	"	William Phillips (local). Drift, 152 tons; hand.		
Hartsburg	Roane	T. H. Blakeman (local). Open pit, 120 tons; hand.		
Ry, Stuttgart 784.				
Higbee	Randolph	Higbee Coal & Mining Co., A. J. Lesley, pres., S. Lesley, secy. and treas., Wm. Walton, mgr. and supt. Cap. stk. \$50,000. Higbee. Shaft, 51,000 tons; steam.		
Ry, 145, 459.	"	Interstate Mining Co., John S. Elliott, pres.; Wm. Walton, secy. and supt.; John Cosgrove, treas. Cap. stk. \$50,000. Interstate. Shaft, 100,000 tons; steam.		
Hughesville	La Fayette	J. D. Bruce, Kansas City, Mo., 1394 W. Eleventh st. Cap. \$5,000. Planters. Shaft, 12,000 tons; horse. Matthew Breckenridge, supt.		
Ry, 145, 460.	"	Excelsior Coal & Coke Co., S. B. Whiting, pres., A. E. Asbury, secy. and treas., J. H. Campbell, mgr. and supt. Cap. stk. \$5,000. Excelsior. Shaft, 15,240 tons; steam.		
"	"	Hagood Coal Co., J. B. Hagood, pres.; J. E. Gunn, mgr. Cap. stk. \$1,800. Hagood. Shaft, 6,000 tons; horse. James Gilkey, supt.		
"	"	Hawkins & Smith. Cap. \$5,500. Shaft, 4,000 tons; horse. John Hughes, supt.		
"	"	E. Huffman (local). Slope, 900 tons; hand.		
"	"	Steady & Fowler Coal Co. Shaft, 20,000 tons; horse.		
"	"	J. E. Wilks. Cap. \$3,000. Hawkins. Shaft, 4,000 tons; horse. John Hughes, supt.		
"	"	Winsor Coal Co., Lexington, Mo., 100 Main st. Cap. \$30,000. Winsor. Shaft, 25,000 tons; steam. H. W. Winsor, mgr. and supt.		
Hume	Rates	E. H. Thurman (local). Open pit, 2,50 tons; horse.		
Ry, 348, 352.				
Huntsville	Randolph	J. S. Burk (local). Slope; horse.		
Ry, 784.	"	E. Edwards (local). Drift, hand.		
"	"	T. M. Elmore. Cap. \$7,000. Shaft, 20,000 tons; steam.		
"	"	John Lowes. Tunnel, 1,295 tons; hand.		
"	"	Randolph County Coal Co., John Breckenridge, propr. Cap. stk. \$30,000. Randolph. Shaft, drift, 100,000 tons; steam. J. W. Pattimore, supt.		
"	"	James B. Reach. West End. Slope, 45 tons. J. W. T. Rucker, supt.		
"	"	Woodard Coal & Mining Co., G. H. Shields, pres., E. J. Bedford, mgr. and supt. Cap. stk. \$50,000. Woodard. Shaft, steam.		
Jerico	Cedar	John S. Cole (local). Cap. \$1,000. Drift, 1,000 tons; hand.		
Ry, Fair Play 348.	"	A. B. Davis (local). Tunnel, 170 tons; hand.		
"	"			
Kansas City	Jackson	Kansas City Clay & Coal Co., Room 400 American Bank Bldg. William Vineyard, pres., J. W. Perry, secy. and treas.; John A. Gallaher, v. -pres., mgr. and supt. Cap. stk. \$100,000. Kansas City. Shaft; steam, electricity (developing).		
Ry, 26, 145, 141, 142, 365, 348, 351, 352, 353, 354, 355, 460, 461, 776, 784.				
Kirksville	Adair	D. C. Scott (local). Hazel Creek. Shaft, 900 tons; horse.		
Ry, 613, 784				
Knodmester	Johnson	Thomas H. Boyd & Sons. Cap. \$10,000. Shaft, 7,000 tons; steam.		
Ry, 460.	"	John F. House. Cap. \$5,000. Boise Clearfork. Slope, 200 tons; horse.		
Ladonna	Andran	C. P. Easton (local). Shaft, 75 tons; horse.		
Ry, 145.	"	Owen Lynch (local). Shaft, 100 tons; horse.		
Laura	Barton	Wilson Clark. Cap. \$15,000. Slope, 10,050 tons. J. H. Ecker, supt.		
Ry, 348, 460.	"	George Glaze (local). Open pit, horse; hand.		
"	"	Kimball & Gervett (local). Open pit, 200 tons.		
"	"	Basel D. Hays (local). Cap. \$300. Tunnel, 80 tons; horse.		
"	"	O. Peterson (local). Drift, open pit, 50 tons; horse.		
"	"	M. M. Speer (local). Open pit, 450 tons; horse; hand.		
"	"	Matthe B. Spring (local). Tunnel, open pit, 30 tons; hand.		
"	"	J. C. Sturdevant. Cap. \$6,000. Open pit, 250 tons; horse; hand.		
Lewis Station	Henry	Cooperative Coal & Mining Co., J. W. Good, pres. and mgr.; John Good, secy., H. F. Faris, treas. Cap. \$10,000. Cooperative. Shaft, 20,000 tons; steam. J. A. Johnson, supt.		
Ry, 459.	"	D. B. Pizz Coal & Mining Co. Cap. stk. \$5,000. Drift, 5,000 tons; hand.		
"	"	Tebb Coal Co., W. C. Bromough, pres.; John Bowen, secy., F. W. Bromough, treas., R. Bowen, mgr. and supt. Cap. stk. \$5,000. Shaft, 15,000 tons; steam.		
Lexington	La Fayette	Roll & Green. Cap. \$10,000. Tunnel, 1,000 tons; hand. W. H. Green, supt.		
Ry, 26, 460.	"	Thomas Clark (local). Cap. \$2,000. Clark. Drift, 1,800 tons; hand. Thomas Kelley, supt.		
"	"			

COAL—BITUMINOUS—(CONTINUED)

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TOWNS	AND	COUNTY		
Lexington.	LaFayette		Kelley Coal Co. (local). Slope, 500 tons; horse. F. G. Kelley, supt.	
"	"		Joe Kist (local). Kist. Tunnel, 1,000 tons; hand.	
"	"		Lexington Coal Mining Co., St. Louis, Mo., Equitable Bldg. Edwin Gould, prest.; D. S. H. Smith, secy., and treas.; R. M. McDowell, mgr.; Cap. stk., \$300,000. McDowell, Riverton and Lathers, shaft; drift, 100,000 tons; steam, horse, hand. M. W. Serat, supt.	
"	"		J. C. McGrew. Cap. \$100,000. Drift, shaft, 20,000 tons; steam. Wm. Parks, supt.	
"	"		Henry Macey, Kansas City, Mo., 1619 Baltimore av. Cap. \$20,000. Tunnel, 17,500 tons; hand. Joseph Perry, supt.	
"	"		Missouri River Coal Mining Co., J. B. Silver, prest.; treas., mgr. and supt. Cap. stk., \$30,000. Silver mine, shaft, 1,000 tons; steam.	
"	"		Mortison Bros. (local). Cap. \$1,000. Drift, 1,500 tons.	
"	"		Thomas Walton. Cap. \$5,000. Walton. Drift, 4,000 tons; hand. Samuel Spruce, supt.	
Liberal. Ry. 318, 400.	Barton		Liberal Coal Co., J. G. Todd, prest., mgr. and supt.; J. H. Todd, secy.; Wm. D. Thompson, treas. Cap. stk., \$15,000. indy., cap. \$1,000. Liberal. Tunnel, 12,000 tons; horse.	
"	"		M. H. Lucas (local). Drift, 80 tons; hand.	
"	"		H. J. Whitesell. Cap. \$20,000. Open pit, 15,000 tons.	
Lingo. Ry. 305.	Macon		Little Pittsburgh Coal Co., Kansas City, Mo., New York Life Bldg. D. French, prest.; J. H. Owens, secy. and treas.; Cap. stk., \$200,000. Shaft. A. G. French, supt.	
McCredie. Ry. 145.	Cullaway		J. S. Henderson (local). Henderson. Shaft, 100 tons; horse. Philip Reynolds, supt.	
"	"		Reynolds & Allen (local). Shaft, 100 tons; horse.	
Mayview. Ry. 145.	La Fayette		Mayview Coal Co. Cap. stk., \$5,000. Strasburg. Shaft, 1,000 tons; steam. T. C. Wilson, mgr. and supt.	
Mendota. Ry. 133.	Putnam		Mendota Coal & Mining Co., T. H. Ketchum, prest.; H. B. Scott, secy. and treas. Cap. stk., \$100,000. Mendota. Slope, 150,000 tons; steam. E. H. Johnson, supt.	
"	"		Pearl Coal & Mining Co., St. Joseph, Mo., 1261 Frederick av. Cap. stk., \$5,000. Pearl. Shaft, 10,000 tons; horse. Howell Price, mgr. and supt.	
Midan. Ry. 135, 64.	St. Louis		Midan Land & Coal Mining Co., 1. Bize, prest.; George T. Collins, secy.; John S. Poole, treas. Cap. stk., \$15,000. Midan. Shaft, 15,000 tons; steam. Daniel Kockman, supt.	
Millford. Ry. Linn 318, 400.			J. W. Dixon. Dixon. Tunnel, 100 tons; hand; horse.	
"	"		W. H. Perry (local). Tunnel; hand.	
"	"		G. G. Ryan (local). Tunnel; hand.	
Milo. Ry. 400.	Vernon		W. L. & R. L. Perry (local). Open pit, 1,000 tons; hand. R. L. Perry, supt.	
Minden Mines. Ry. 318, 400.	Barton		Wear Coal Co., Topeka, Kan., 156 W. 8th st. L. F. Wear, prest.; L. G. Wear, V. prest.; N. S. Wear, secy. Cap. stk., \$50,000. No. 1. Shaft, 2,000 tons; steam. A. B. Kerkwood, supt.	
"	"		Western Coal & Mining Co., St. Louis, Mo., Sixth and Locust sts. Edwin Gould, prest.; D. S. H. Smith, secy. and treas.; R. M. McDowell, V. prest. and mgr.; mgr. Cap. stk., \$500,000. Minden, Nos. 1 and 4. Shaft, slope, 125,000 tons; steam. J. Cash Lane, supt.	
Moundville. Ry. 400.	Vernon		John Brown. Open pit, 1,000 tons.	
"	"		J. M. Devore & Co. Cap. stk., \$1,700. Shaft, 1,000 tons; hand. J. M. Devore, supt.	
"	"		John Moore (local). Moore. Open pit, 2,000 tons; hand.	
"	"		W. T. Powell (local). Powell. Shaft, horse.	
Mt. Carmel. Ry. Vandalia 145.	Andham		O. J. Detienne (local). Shaft, 100 tons; horse.	
Napoleon. Ry. 400.	La Fayette		Napoleon Coal & Mining Co., T. L. Williamson, prest.; S. Gates, treas.; J. H. Bultendick, mgr. Cap. stk., \$8,000. Gates. Shaft, 12,500 tons; horse.	
Nashville. Ry. Opolis, Kan. 720.	Barton		John C. Ferguson. Open pit, 100 tons; horse. The Ferguson, supt.	
Northome. Ry. 25, 784.	Cattell		Hatwell, Arnold & Co. (local). Cap. stk., \$9,000. Rushville. Slope, 500 tons; hand. J. W. Fitch, mgr. and supt.	
North. Ry. Clinton 318, 400.	Henry		Woods & North Coal Co., Kansas City, Mo., 1400 Olive st. and 14th av. M. G. Maney, prest.; W. S. Woods, secy. and mgr.; T. J. Tygard, treas. Cap. stk., \$15,000. Liberty. Shaft. Steam. Roland Thomas, supt.	
Ossola. Ry. 318, 400.	St. Clair		William Watkins (local). Johnson. Slope, 18 tons; hand.	
Perche. Ry. Sturgeon 784.	Boone		J. W. Stone (local). Open pit, 50 tons.	
Perry. Ry. New London 719.	Rails		E. S. Boulware (local). Open pit, 280 tons; hand.	
"	"		J. S. Evans (local). Tunnel, open pit, 1,000 tons; hand.	
"	"		John Russell (local). Russell. Open pit, 240 tons; hand.	
Peters. P. O. Harrisburg. Ry. Sturgeon 784.	Boone		W. A. Stadium (local). Slope, 200 tons; hand.	

COAL BITUMINOUS (CONTINUED)

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TOWNS	COUNTY		
Persinger	Boone	Columbia Coal Mining Co., Columbia, Mo., A. Rees, pres., M. W. Rees, secy. and treas., Cap. stk. \$10,000	
"	"	Persinger. Shaft, 12,000 tons; horse. T. Rees, supt.	
Quitman Ry. 354.	Nodaway	R. Harris. Cap. \$5,000. Shaft, 175 tons; horse.	
"	"	W. R. Holt and others. Slope, tunnel; horse, hand.	
"	"	Kessinger Co., Cap. stk. \$5,000. Farmer. Shaft, 1,200 tons; horse.	
"	"	G. W. Nelson (locab). Collins. Slope, 100 tons.	
"	"	Nicholas Bros. (locab). Shaft, 1,200 tons; horse.	
"	"	Pearson Bros., Cap. \$1,000. Pearson. Slope, 1,000 tons; hand.	
"	"	N. Roberts. Quitman. Shaft; horse.	
Randolph Ry. 141, 305, 784.	Clay	Randolph Coal & Gas Co., Kansas City, Mo., Seventh and Wyandotte sts., E. L. Martin, pres., Oliver C. Hutchinson, secy. and mgr.; M. E. Wright, treas., Cap. stk. \$200,000. Randolph. Shaft, 32,500 tons; steam; hand. Morgan Meredith, supt.	
Renick Ry. 784.	Randolph	Renick Coal Co., S. M. Forrest, pres., J. A. Maxwell, secy.; J. R. Miles, treas., E. L. Hubbard, mgr. and supt. Cap. stk. \$10,000. Renick. Shaft, 3,500 tons. Steam, hand.	
Rich Hill Ry. 348, 400	Bates	R. E. Allen. Cap. \$3,000. Slope, 4,670 tons; hand.	
"	"	Wallace Bruce. Cap. \$10,000. Slope, 20,000 tons; horse.	
"	"	Keith & Perry Coal Co., Kansas City, Mo., 906 Walnut st., R. H. Keith, pres.; E. E. Riley, secy.; David Mackie, treas. and supt., John Perry, v.-pres. and mgr., Cap. stk. \$800,000. Shafts, 150,000 tons; steam.	
"	"	Rich Hill Coal Mining Co., St. Louis, Mo., Sixth and Locust sts., Edwin Gould, pres., D. S. H. Smith, secy. and treas., R. M. McDowell, v.-pres. and gen. mgr., Cap. stk. \$500,000. Rich Hill. Shaft, drift, 550,000 tons; steam. Joseph T. Reavley, supt.	
"	"	J. M. Seawell & Co., Kansas City, Mo., Eighth and Wyandotte sts., J. M. Seawell, pres. and mgr., M. Allen, secy. and treas., Cap. stk. \$20,000. McComb. Open pit, 12,000 tons; hand. S. M. Talbot, supt.	
Richmond Ry. 26.	Ray	Darned Coal Co., Cap. \$15,000. No. 10. Shaft, 23,000 tons; horse. John W. Hubbard, supt.	
"	"	William Pence. Cap. \$800. Black Diamond. Shaft, 2,400 tons; horse.	
"	"	A. F. Rankin & Co., Cap. stk. \$5,000. Slope, 11,520 tons; horse.	
"	"	Richmond Coal Co., J. S. Hughes, pres., H. M. Hansen, secy., G. A. Hughes, treas., Cap. stk. \$100,000. Richmond. Shaft, 75,000 tons; steam. John Gibson, supt.	
Sedalia Ry. 470, 400	Pettis	Sedalia Mining & Prospecting Co., Room 27 Dempsey Bldg., J. G. White, pres., Jonathan Myers, secy., F. W. Shultz, treas., G. M. Babcock, mgr. and supt. Cap. stk. \$5,000. Bushy Valley. Shaft, slope, 2,000 tons; steam.	
Sheldon Ry. 400	Vernon	W. G. Gontenman (locab). Little Black Diamond. Slope, 320 tons; horse.	
Slater Ry. 145	Saline	Isaac Brezgs (locab). Cap. \$750. Slope, 200 tons; hand. Robert Murphy, supt.	
"	"	Wm. S. Hedger (locab). Open pit, 200 tons; hand.	
"	"	Barney Hunter. Slope, 40 tons; hand.	
"	"	R. F. Thompson (locab). Cap. \$2,500. Slope, 100 tons; hand.	
Stahl Ry. 613.	Adair	Hartnott Bros. (locab). Drift, hand.	
"	"	Jacob Ledford. Cap. \$300. Drift, 900 tons; hand.	
Stephens' Store, Callaway Ry. Columbia 784.		W. M. Guy (locab). Shaft, 250 tons; horse.	
"	"	William Oldham. Shaft, 340 tons; horse.	
Swanwick Ry. 26	Ray	Williams Coal Co., St. Joseph, Mo., cor. Sixth and Archibque sts., R. J. Williams, pres., mgr. and supt., John A. Ross, secy. and treas., Cap. stk. \$5,000. Swanwick. Shaft, 10,000 tons; horse.	
Sweet Springs Ry. 400.	Saline	H. H. Marmaduke. Cap. \$1,500. Shaft, 4,000 tons; horse. Sherman Hersley, supt.	
Sylvania Ry. Golden City, 348	Deer	A. Leonard (locab). McGarvey. Slope, 6,000 tons; horse.	
"	"	Robert McIney (locab). McIney, 80 tons. Slope, tunnel, 800 tons; horse, hand.	
"	"	R. W. Sharp (locab). Star. Slope, 600 tons; horse.	
Thomas Hill Ry. Clinton Hill 784	Randolph	Joseph Milburn & Sons. Cap. stk. \$2,000. Milburn. Shaft, 700 tons; horse.	
Vandalia R. 145	Andrain	Vandalia Coal Co., William Bevan, pres., W. R. Williams, secy., R. W. Fryar, treas., D. E. Stacy, mgr. and supt. Cap. stk. \$15,000. Shaft, 30,000 tons; steam.	
"	"	Vandalia Fire Brick Co., S. D. Ely, pres., J. F. Coontz, secy., C. G. Daniels, treas., Cap. stk. \$100,000. Shaft, 5,000 tons; steam. John Dabson, mgr. and supt.	
Versdelia Ry. Liberal, 308, 400	Patton	William Jones (locab). Open pit, 800 tons.	
Versailles Ry. 400	Morgan	Davidson & Neilson (locab). Shower. Tunnel. A. F. Davidson, supt.	
"	"	Samuel Martin (locab). Martin. Shaft, 200 tons; steam.	

COAL BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT	
TOWN	AND	COUNTY		
Victor		Monroe	L. Hughes (local). Cap. \$6,000. Open pit, 1,000 tons.	
Vista		St. Clair	G. A. VanDine, Vista. Slope, 1,200 tons, horse.	
Walker		Vernon	C. B. Crawford. Cap. \$1,000. Open pit, 800 tons, horse.	
"		"	Hunter Bros. (local). Open pit, 100 tons.	
"		"	W. H. Prewitt (local). Open pit, 150 tons, horse, hand.	
Warrensburg		Johnson	D. A. Bullock (local). Slope, 1,000 tons, hand.	
"		"	A. W. MacLae. Slope, 1,800 tons, hand.	
"		"	M. E. Medly (local). Cap. \$1,000. Medly. Slope, 1,000 tons, hand. Henry A. Van, supt.	
"		"	Warrensburg Electric Street Co. Slope, 2,000 tons, hand. A. S. Kenyon, supt.	
"		"	Benjamin F. Wood. Slope, 1,500 tons, hand.	
Waverly		La Fayette	Waverly Coal & Mining Co. James Grant, pres. J. H. Cross, Jr., secy. and treas. F. F. Downs, mgt. Cap. \$15,000. Shaft, steam, developing.	
Wellington		La Fayette	Andrew Carter (local). Cap. \$2,500. Draft, 500 tons.	
"		"	Wellington Coal Co. M. A. L. McCalland, pres. and mgt. J. J. Atchew, secy. and treas. Cap. \$100,000. Shaft, 5,000 tons, steam, horse. M. A. L. McCalland, supt.	
Wellsville		Montgomery	Henry Whitehead (local). Shaft, 600 tons, horse.	
Windsor		Henry	J. W. Shook (local). Hines. Shaft, 2,000 tons, foot. J. J. Johnston, supt.	
Worcester		Andrew	Robbins Matthew (local). Cap. \$3,000. R. H. H. Open pit, 200 tons, hand.	
Worland		Bates	I. Baldwin (local). Cap. \$500. Live Oak. Open pit, 800 tons, hand.	
"		"	Knepp & Co. Pleasanton, Kan. Cap. \$3,000. Knepp. Slope, open pit, 1,000 tons, horse. J. J. Johnston, supt.	
"		"	F. A. Raney (local). Raney. Slope, 1,000 tons, horse.	

COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT	
TOWN	AND	COUNTY		
Dry Branch		Franklin	W. B. Shotwell, St. Clair, Mo. Copper Hollow copper, open. L. H. H. H. H.	

FIRE CLAY

LOCATION OF MINE, OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT	
TOWN	AND	COUNTY		
Christy		Howell	Christy Fire Clay Co., St. Louis, Mo. Laclede River. C. M. Christy, pres. W. C. Morris, secy. and treas. J. B. Clements, mgt. Cap. \$100,000. Christy, fire clay. Shaft, 25,000 tons, steam. Fred Bayless, supt.	
Fulton		Callaway	Fulton Fire Brick & Mining Co. S. H. Buckle, pres. L. L. Niekirk, secy. P. S. Adams, treas. Cap. \$150,000. Fire clay. Shaft, 25,000 tons, steam. David Jones, supt.	

IRON

LOCATION OF MINE, OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT	
TOWN	AND	COUNTY		
Candray		Deer	Mallard Blast Furnace Co., St. Louis, Mo. 410 Olive St. W. H. Low, pres. J. J. Fisher, secy. Cap. \$150,000. Hawkins, red hematite, blue specular. Open pit, 1,000 tons, steam. L. H. Candray, supt.	
Cuba		Clayton	Cuba Iron & Fuel Mining Co., St. Louis, Mo. 420 Market St. J. W. Weaver, pres. M. S. Barnett, secy. and treas. James A. Green, mgt. and supt. Cap. \$150,000. A. J. S. Warren and others, blast spec. lat. red hematite. Open pit, hand, horse.	

IRON (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN.	AND	COUNTY.		
Phil. Knob Ry. 714.		Iron	St. Louis Ore & Steel Co., St. Louis, Mo., Fourth and Market sts., E. A. Hitchcock, pres.; O. L. Garrison, secy. and treas.; George W. Crane, mgr. and supt., Cap. stk. \$350,000. Phil. Knob, specular ore, shaft, tunnel, steam, compressed air, furnace.	
St. James Ry. 720.		Philips	E. W. James. Reed, red hematite. Open pit, 1,000 tons; hand. Henry Crawley, supt.	
Salem Ry. 720.		Dent	A. C. & J. S. Cansey. Cap. \$500. Cansey. Shaft, 100 tons hand. A. C. Cansey, supt.	
"		"	Missouri Iron Co., St. Louis, Mo., 411 Olive st., H. A. Crawford, pres. and mgr.; Emerson L. Foote, secy. and treas.; Simmons Mountain, red hematite. Slope; steam. E. B. Sankey, supt.	
Slope Hill Ry. Salem 720.		Dent	W. T. Daugherty. Steam, blast furnace. E. L. Foote, supt.	
West Plains Ry. 348.		Howell	D. Carson Iron Co. Cap. \$5,000. Car-on, brown hematite. Tunnel, open pit, 12,000 tons; horse. David Carson, supt.	

LEAD AND ZINC

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN.	AND	COUNTY.		
Alba Ry. Carthage 406, 720.		Jasper	Alba Co., Carthage, Mo., Geo. Demmon, pres.; W. H. Bradley, v. pres.; Bartlett Palmer, treas.; W. H. Seamon, mgr. Cap. stk. \$100,000. Alba, lead, zinc. Slope, steam. R. R. Allen, supt.	
Ash Grove Ry. 348.		Greene	Pennsylvania Mining Co., Charles S. Green, pres.; D. P. Hobart, secy.; G. A. Thorman, treas.; E. A. Hurt, mgr. and supt., Cap. stk. \$50,000. Pennsylvania, lead, zinc. Shaft, horse.	
"		"	Ash Grove Lead & Zinc Mining Co., St. Louis, Mo., cor. Eleventh and Walnut sts., Charles W. Goetz, pres., Cap. stk. \$12,000. Lead, zinc. Shaft, 50 tons; hand.	
"		"	Golden Eagle Mining Co., Golden Eagle, lead, 98 tons; horse.	
"		"	North & Murray. Ash Grove, lead, zinc. 100 tons; horse, steam.	
Aurora Ry. 720.		Lawrence	Anchor Mining Co., Kansas City, Mo., cor. Seventh and Wendolotte sts., H. C. Lindsey, pres.; L. W. Hubbard, mgr. Cap. stk. \$20,000. Anchor, zinc. Shaft, drift, 300 tons; steam.	
"		"	M. M. Apple & Sons. Apple, lead, zinc. Shaft, horse.	
"		"	Berry & Co., R. A. Berry, pres.; mgr. and supt., A. R. Moore, secy.; E. Jordan, treas. Jayhawk, lead, zinc. Shaft, tunnel, 100 tons; horse.	
"		"	Brinkerhoff Mining Co., Cap. stk. \$25,000. Zinc. Shaft, 300 tons; steam.	
"		"	T. A. Byres. Mollard, lead, silicate. Shaft, 200 tons; horse.	
"		"	Casey & Co., Lead. Shaft, drift, 100 tons; hand.	
"		"	Cleveland & Aurora Mineral Land Co., Cleveland, Ohio. W. W. Baldwin, pres. and mgr.; H. J. Baldwin, secy. and treas. Cap. stk. \$100,000. Lead, zinc. Shaft, 750 tons; steam, horse. C. F. Johnston, supt.	
"		"	Wm. Coats & Co., Cap. \$1,000. Fountain Head, zinc. Shaft. steam.	
"		"	John N. Dalby, Sedalia, Mo., care of Third National Bank. Cap. \$100,000. Little Bonanza, zinc. Shaft, tunnel, 1,544 tons; steam. A. R. Dalby, supt.	
"		"	Dillard & Co., Cap. \$40,000. Dillard, lead, zinc. Tunnel, shaft, horse.	
"		"	Eaton & Co., P. O. Box 603. Cap. \$400. Tuff Nut, lead, zinc. Shaft, 231 tons; horse. A. C. Eaton, supt.	
"		"	Goodman & Co., Cap. \$1,000. Goodman, lead, zinc. Shaft, 40 tons; horse. -- Johnson, supt.	
"		"	Harry Wood Mining Co., St. Joseph, Mo., J. M. Street, pres.; H. Wood, secy. and treas.; L. D. Kelly, mgr. and supt., Cap. stk. \$100,000. Harry Wood, zinc. Shaft, drift, 100 tons; hand.	
"		"	Johnston Bros. & Co., Cap. \$5,000. Turkey Track, lead, zinc and blende. Shafts, 330 tons; horse.	
"		"	T. J. Liles, Cap. \$50,000. Liles, lead, zinc. Shaft, 1,700 tons; steam. G. W. Liles, supt.	
"		"	Little Rustler Mining Co., John L. Hall, pres. and mgr.; J. E. Hill, secy. and treas. Cap. stk. \$25,000. Little Rustler, zinc. Shaft, tunnel, steam. F. Fitzpatrick, supt.	
"		"	Louisville Lead & Zinc Co., Louisville, Ky., 340 Second St., J. M. Clark, pres.; T. L. Jefferson, secy. and treas.; Cap. stk. \$400,000. Orchard, zinc, blende, lead. Shaft, 1,500 tons; horse, steam. W. M. Johnston, mgr. and supt.	
"		"	McCullah Mining Co., Marionville, Mo., John A. McCullah, pres.; mgr. and supt., Belle B. McCullah, secy. D. D. Seaman, treas. Cap. stk. \$30,000. McCullah, lead, zinc. Shaft, 600 tons; steam.	
"		"	Mogul Mining Co., S. Ritter, pres.; Jacob Nathan, secy. and treas. Cap. \$2,000. Mogul, lead, zinc. Shaft, 500 tons; steam. John A. Cool, supt.	
"		"	E. Nathan, E. Oglesby & S. Cohn. Cap. \$2,500. Little Run, zinc, lead. Shaft, 100 tons; steam.	
"		"	Nickel Plate Mining Co., T. H. Brinkerhoff, pres.; Chase Palmer, secy. and treas. Cap. stk. \$20,000. Nickel Plate, zinc, blende. Shaft, steam.	
"		"	Oriskany Range Mining Co., Louisville, Ky., 24 Third av., C. W. Greens, pres.; C. D. Moody, secy. and treas. and mgr. Cap. stk. \$40,000. Lead, zinc. Shaft, 200 tons; steam. C. F. Johnston, supt.	
"		"	James Ratliff. Blech, lead, silicate. Shaft, 20 tons; horse.	
"		"	Rinker Lead & Zinc Co., George W. Rinker, pres.; J. C. Plumb, secy.; W. B. Booth, treas.; S. H. Minor, mgr. Cap. stk. \$40,000. Rinker, zinc, lead. Shaft, 1,000 tons; steam, horse. J. L. Rinker, supt.	

LEAD AND ZINC (CONTINUED)

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATOR, OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT	
TOWN	COUNTY		
Aurora,	Lawrence	Robertson & Co., Cap. \$10,000. Big Bonanza, zinc. Shaft, 1,000 tons; steam. W. H. Robertson, supt.	
"	"	H. C. Ruly. Cap. \$1,500. Tri-Weekly, lead, zinc. Shaft, 150 tons; steam.	
"	"	St. Louis Aurora Mining Co., H. H. Wernse, prest., James Abbott, v. prest., H. M. Noel, treas., H. G. Noel, secy., Cap. \$1,000,000. St. Louis Aurora, lead, zinc. Shaft, drift, 1,000 tons; steam. L. W. Hubbell, supt.	
"	"	Seamon Mining Co., Rolla, Mo., D. W. Maledon, prest., S. B. Rowe, secy., A. S. Long, treas., Charles A. Reed, mgr. and supt., Cap. \$10,000. Seamon, lead, zinc. Shaft, 25 tons; steam, horse.	
"	"	Smith & Co., Cap. \$500. Louisville, lead and zinc. Shaft and tunnel, 5 tons; free, horse and steam.	
"	"	Spell & Scott. Cap. \$2,500. Paterson, lead, zinc. Steam.	
"	"	Valley Queen Mining Co., Valley Queen, lead and zinc. Shaft, tunnel, steam. M. Hudson, supt.	
"	"	E. H. Williams. Independent, zinc. Shaft, steam.	
Bellefonte,	Jasper	Knobbe Mining Co., Chicago, Ill., St. Clair, prest., J. A. Knobbe, prest., J. S. Baker, secy., A. C. Swanson, treas., Cap. \$10,000. Holden, lead, zinc. Shaft, 200 tons; steam. C. M. De Graff, supt.	
"	"	St. Charles Lead & Zinc Co., St. Charles, Mo., J. W. Berchfield, prest., J. F. Backman, v. prest., A. G. Douglass, secy., mgr. and supt., H. D. Bruns, treas., Cap. \$10,000. Murphy, zinc, lead. Shafts, 5,000 tons; steam.	
"	"	Standard Lead & Zinc Mining Co., Joplin, Mo., 504 Moffett av., T. W. Johns, prest., Arthur Spence, secy., J. H. Danglefield, treas. and mgr., Cap. \$18,000. Standard, zinc, blende. Shaft, 40 tons; steam. H. E. Danglefield, supt.	
Blackwell,	St. Francois	Thomas Welch. Cap. \$15,000. Peavine, barite, lead. Shaft, 200 tons; hand. Wm. Welch, supt.	
Ry. 714			
Blendsville,	Jasper	Josiah Stum. Lead, zinc. Shaft, horse. W. S. Crane, supt.	
Ry. Joplin, 348, 349, 350,			
720.			
Bonne Terre,	St. Francois	St. Joseph Lead Co., St. Louis, Mo., for Joseph, Bldg., J. Waman Jones, prest., Hugh N. Camp, secy., and treas., Cap. \$10,000,000. St. Joseph, lead. Shaft, 15,000 tons; water, furnace. Charles E. Parsons, supt.	
Ry. 157.			
Bourbon,	Crawford	F. W. Linn, St. Louis, Mo., 200 Robert st., Cap. \$5,000. Sulphur, lead. Shaft, steam. G. L. W. Smith, supt.	
Ry. 720.			
Cartersville,	Jasper	G. W. Bousley. Cap. \$20,000. Bousley, lead, zinc. Shaft, 2,000 tons; steam.	
Ry. Webb City, 348,			
400, 720.			
"	"	Blanton & Wyatt. Cap. \$9,000. Blende. Open pit, 1,000 tons; steam. S. B. Wyatt, supt.	
"	"	Danaherty, Day & Danaherty, W. A. Danaherty, prest., W. A. Danaherty, secy., J. A. Danaherty, treas. and supt., T. W. O'Brien, mgr., Cornfield, zinc, blende. Shaft, 2,500 tons; steam, horse.	
"	"	Grubb & Stamp. Zinc, lead. Shaft, 100 tons; horse.	
"	"	M. E. Harden & Co., M. E. Harden, prest. and supt., Freeman River, mgr., Cap. \$20,000. Zinc, lead. Shaft, 2,000 tons; steam.	
"	"	Lamar Mining Co., Lead, zinc. Shaft, steam, developing. J. K. Anderson, mgr. and supt.	
"	"	Lindreth & Piten. Lead, zinc. Shaft, 600 tons; steam. G. W. Lindreth, supt.	
"	"	Lichtner & Page, Joplin, Mo., Zinc. Shaft, steam.	
"	"	Lost Hope Mining Co., W. H. Stevenson, prest., mgr. and supt., A. T. Forten, secy. and treas., Lost Hope, lead, zinc. Shaft, horse, steam. W. H. Stevenson, supt.	
"	"	Minneapolis & Webb City Mining Co., Minneapolis, Minn., 124 Bond St. Back, J. A. Fisher, prest., S. A. Reed, secy. and treas., D. G. Mitchell, mgr. and supt., Cap. \$10,000. Minneapolis, lead, zinc. Shaft, steam.	
"	"	North Cartersville Draining Co., Lead, zinc. Shaft, 500 tons; steam, horse, hand. Edw. N. Davey, supt.	
"	"	Ozark Mineral Land and Mining Co., Canthack, Mo., S. W. Pierce, prest., J. W. Penning, secy., T. T. Linscombe, treas., T. J. Campbell, mgr. and supt., Cap. \$10,000. Lead, zinc. Steam.	
"	"	Splitter Lead & Zinc Co., Bethelton, Pa., Simon P. Splitter, prest., J. O. Backman, secy. and treas., Cap. \$10,000. Splitter, lead and zinc. Shaft, steam, developing.	
"	"	Schoenberger & Zoega Mining Co., Matt Zoega, prest. and secy., T. Zoega, mgr. and treas., Cap. \$10,000. Lead and zinc. Shaft, 2,000 tons; steam. R. L. McGee, supt.	
"	"	Troup Mining Co., Joseph H. Clark, prest., Charles L. Robbins, secy. and treas., S. H. Cobb, mgr., Cap. \$10,000. Troup, lead, zinc. Shaft, 700 tons; steam.	
"	"	Vernon Mining Co., Nevada, Mo., M. L. January, prest., A. L. Davis, secy., T. L. Carr, treas., Cap. \$10,000. Vernon, lead, blende. Shaft, steam. J. H. Lanza, supt.	
Cartage,	Jasper	Myers & Johnson. Zinc. Shaft, 1,000 tons; steam.	
Ry. 400, 720.			
"	"	Pacific Mining Co., B. P. Waggoner, prest., W. P. Waggoner, secy. and treas., Wm. B. Myers, mgr. and supt., Cap. \$10,000. Pacific, blende. Shaft, 1,500 tons; steam.	
Cave Springs,	Jasper	Ranier Mining & Milling Co., St. Louis, Mo., various Hardware Co., John E. Fisher, prest., George W. Wilson, secy., F. M. Shaw, treas., Daniel Over, mgr. and supt., Cap. \$10,000. Ranier, zinc, blende. Open pit, 1,000 tons.	
"	"		
Chadwick,	Christian	Armstrong Mining Co., Springfield, Mo., First National Bank, Public Square, R. L. McFarlane, prest. and treas., Homer McElhenny, secy., J. A. Hammond, mgr. and supt., Cap. \$10,000. Armstrong, lead, zinc. Shaft, pit, slope, steam.	
Ry. 720.			

LEAD AND ZINC (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	COUNTY		
Chadwick, <i>(continued).</i>	Christian	Eastley Mining Co., Springfield, Mo., Baker Block, Rooms 19 and 21, Wadley Bouldin jr., pres.; R. P. Bowyer, secy. and treas.; J. A. Hammond, mgr. Cap. stk. \$100,000. Eastley, lead. Tunnel and shafts, 600 tons; steam. A. Hall, supt.	
Cruise Ry., Blackwell 400.	Washington	Washington Lead & Mining Co., St. Louis, Mo., C. S. Grady, pres.; Dwight Treadway, secy. and treas.; R. T. Brown, mgr. and supt. Cap. stk. \$20,000. Washington, lead, zinc. Shaft, tunnel, 400 tons; water, hand.	
Doe Run Ry., 457.	St. Francois	Doe Run Lead Co., Bonne Terre, Mo., J. Wyman Jones, pres.; F. P. Graves, secy.; Hugh N. Camp, treas.; C. E. Parsons, mgr. Cap. stk. \$750,000. Doe Run, lead. Shaft, 4,000 tons; steam; blast furnace, 6,000 tons.	
Fairfield Ry., Warsaw 400.	Benton	Tecumseh Mining Co., W. P. Wright, pres.; W. D. Cox, mgr. and supt. Cap. stk. \$7,000. Tecumseh, lead and zinc. Shaft, horse (developing).	
Fertile Ry., Blackwell 400.	Washington	Z. F. Hugganbottom, Cap. \$60,000. Lead, Shaft, 150 tons; horse, hand.	
Granby Ry., 720.	Newton	Barnett Mining Co., Woodland, lead. Shaft, drift, hand. J. McKee, mgr. and supt.	
"	"	Ben Harrison Mining Co., Cap. \$3,000. Ben Harrison, zinc, lead. Shaft, 1,440 tons; steam. Louis J. Love, supt.	
"	"	Benjamin F. Butler Mining Co., W. H. A. Green, pres.; C. H. R. Kugel, secy.; Henry Meadow, treas.; John Blunk, mgr. and supt. Benjamin F. Butler, lead, zinc. Shafts, 500 tons; steam, hand.	
"	"	Capps, Wood and others. Barnett, lead. Shaft, tunnel; hand (developing).	
"	"	Frost & Co., E. M. Frost, pres.; W. S. Frost, secy.; Ed. Stamford, mgr. Cap. stk. \$2,500. White Rock, zinc, lead. Shaft, tunnel, steam. C. E. Parker, supt.	
"	"	Granby Mining & Smelting Co., St. Louis, Mo., Equitable Bldg., John P. Neville, pres.; A. G. Trevor, secy. and treas. Granby, lead, zinc. Shaft, steam, furnace. John Kingston, supt.	
"	"	Johnson, Mosplay & Co., A. J. Johnson, gen. mgr. Cap. \$2,500. Starcher, lead, zinc, silicate. Shaft; horse. Ed. Mosplay, supt.	
Gregg Ry., Joplin 348, 400, 720.	Newton	Scotia Mining Co., Joplin, Mo., H. H. Gregg, pres. and mgr.; T. J. Gregg, secy. Corinne, zinc, blende, Shaft, steam. Tom J. Gregg, supt.	
Joplin Ry., 348, 400, 720	Adair	Barbee Mining Co., James Campbell, pres.; J. L. Briggs, secy. and treas. Cap. stk. \$100,000. Lead, zinc, Shaft, steam. Matt. Coyle, supt.	
"	"	Brewer Bros. & Parks, H. M. Brewer, pres.; mgr. and supt.; A. Brewer, secy.; F. Brewer, treas. Cap. stk. \$10,000. Brewer Bros., lead, jack. Shaft, 2,000 tons; steam.	
"	"	Carlisle, Colbar & Tomlinson, 300 W. Second st., Cap. \$10,000. Carlisle, jack, lead ore. Shaft, tunnel, 155 tons; horse. Jack McNairly, supt.	
"	"	Cave Spring Mining Co., Wm. E. Brinkerhoff, pres.; Victor A. Wallace, secy. and treas.; Philip J. Plummer, mgr. Cap. stk. \$30,000. Cave Spring, zinc, blende. Open pit, shaft, 1,000 tons; steam. Daniel Burt, supt.	
"	"	Columbian Lead & Zinc Co., Chicago, Ill., 85 Dearborn st., L. Weinschenk, pres.; S. E. Magill, secy. and treas. Cap. stk. \$1,500,000. Lead, zinc.	
"	"	Cottonwood Mining Co., Cap. \$25,000. Cottonwood, lead, zinc. Shaft, 600 tons; steam.	
"	"	Crossman Mining Co., H. B. Crossman, pres.; P. L. Crossman, v.-pres.; J. E. Stillwell, secy., treas. and supt.; L. D. Porter, mgr. Cap. stk. \$30,000. Crossman, zinc, lead. Shaft, steam.	
"	"	Emile Zinc Co., St. Louis, Mo., 24 N. Third st., Frank Carter, pres.; L. Shreve Carter, secy. and treas.; A. W. Sewall, mgr. and supt. Cap. stk. \$300,000. Lead, zinc. Shaft, drift, 700 tons; steam, electricity.	
"	"	Empire Zinc Co., Philadelphia, Pa., 925 Chestnut st., John Price Wetherill, pres.; T. Lewis Thomas, secy.; J. H. Troutman, treas.; W. C. Wetherill, mgr. Cap. stk. \$750,000. Lead, zinc. Shaft, 5,800 tons; steam, electricity, horse, zinc smelter, 2,500 tons. Pope Yeatman, supt.	
"	"	Great Western Mining Co., Kansas City, Mo., Great Western, Shaft, 10,000 tons; steam. Robert Ries, supt.	
"	"	Greenleaf Lead & Zinc Co., St. Louis, Mo., Bank of Commerce Bldg., M. Greenwood jr., pres.; M. Greenwood sr., secy. and treas. Lead, zinc. Shaft, steam. S. Morrison, supt.	
"	"	M. L. Hubbard, cor. Broadway and Missouri sts., Hubbard, lead, zinc. Shaft, 1,500 tons; steam. Jacob Fanning, supt.	
"	"	Jacobs Bros., Carthage, Mo., care of First National Bank, Pineard, lead, zinc. Shaft, steam. W. Hogue, supt.	
"	"	King Solomon's Mining Co., Kansas City, Mo., 268 Shelden Bldg., Thomas H. Mastin, pres.; John C. Tate, secy. and treas. Cap. stk. \$5,000. Tanyard Hollow, lead, zinc. Shaft, steam.	
"	"	Lee Taylor & Co., Lead, zinc. Shaft, drift, steam. Lee Taylor, supt.	
"	"	Little Nellie Zinc Co., St. Louis, Mo., 629 Chestnut st., B. F. Webster, pres.; Geo. B. Webster, secy. and treas.; J. A. Stanton, mgr. and supt. Cap. stk. \$50,000. Little Nellie, zinc, lead. Shaft, steam, horse.	
"	"	Little Nugget Mining Co., L. Henon, pres.; M. C. Proudfoot, secy., treas. and mgr. Cap. stk. \$25,000. Little Nugget, lead, zinc. Shaft, 200 tons; steam. T. Henon, supt.	
"	"	D. C. McCreary, Ford, Owen, lead, zinc. 2,000 tons; steam.	
"	"	F. G. McCoy, Cap. \$15,000. Possum Hollow, lead, zinc. Shaft, 33 tons; steam.	
"	"	Manhattan Zinc Co., St. Louis, Mo., 417 Pine st., Walter Taylor, pres.; D. G. Taylor, secy. and treas. Cap. stk. \$15,000. Manhattan, lead, zinc. Shaft, 45 tons; steam. T. Henon, mgr. and supt.	
"	"	Mittleberg Lead & Zinc Mining Co., St. Louis, Mo., 6 N. Seventh st., Thomas W. Crouch, pres.; Arthur Mittleberg, secy. and treas.; Wm. A. Reed, mgr. Cap. stk. \$12,000. Mittleberg, lead, zinc. Shaft, 225 tons; steam. James M. Reed, supt.	
"	"	E. R. Motter jr., Cap. \$10,000. Lead, zinc. Shaft, 4,000 tons; steam.	

LEAD AND ZINC (CONTINUED)

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Joplin.		Jasper	Monkey Hill Mining Co., Cap. \$15,000. Monkey, zinc, lead. Shaft, 2,000 tons. steam. J. P. Wheeler, supt.	
"		"	Moonshine Mining Co., L. C. Winoth, prest., W. S. Paul, secy. and treas. Cap. stk. \$65,000. Moonshine, lead, zinc. Shaft, steam, horse.	
"		"	Owego Lead & Zinc Co., Samuel C. Cook, prest. and mgr., George Shaw, secy. and treas. Cap. stk. \$50,000. Owego, lead, zinc. Shaft, 3,750 tons. steam.	
"		"	W. S. Paul. Lead, zinc. Shaft, horse.	
"		"	Petra Zinc Mining Co., St. Louis, Mo., to N. Eighth st., M. Greenwood, prest., J. M. Crouch, secy. and treas. Cap. stk. \$24,000. Petra, blende, lead. Shaft, 1,000 tons. steam. Geo. W. Kettner, supt.	
"		"	Randall & Co., Cap. \$5,000. Randall, lead, zinc. Shaft, 25 tons. steam. T. S. Lovv, supt.	
"		"	Rice & James. Mahaska, lead, zinc. Shaft, drift, 60 tons. steam, electricity. J. M. James, supt.	
"		"	Roaring Springs Lead & Mining Co., Hensbur, 2, Pa. D. W. Lake, prest., Vivian Evans, secy. and treas., D. C. Hoover, mgr. Cap. stk. \$10,000. Lead, zinc. Shaft, 2,500 tons. steam. F. Heiblung, supt.	
"		"	Charles L. Rose. Cap. \$20,000. Moonshine, lead, zinc. Shaft, 25 tons. steam.	
"		"	Ruby Mining & Smelting Co., St. Louis, Mo., 2600 West 1st. Room H. C. C. Higham, prest., Henry Digby, secy. and treas., W. S. Higham, mgr., Ruby, zinc. Shaft, steam, developing.	
"		"	Rusk Mining Co., Kansas City, Mo., 802 New York Life Bldg. L. W. McCullum, prest., N. A. Dickey, treas. Cap. stk. \$10,000. Lead, zinc. Shaft, steam.	
"		"	Snyder Bros. Mining & Smelting Co., F. L. Snyder, prest., H. K. Snyder, secy. and treas. Cap. stk. \$20,000. Snyder Bros., zinc, lead. Shaft, 500 tons. steam, elect. W. John C. Snyder, supt.	
"		"	South Joplin Lead & Zinc Mining Co., Kansas City, Mo., 207 East Twelfth st. L. A. McChland, prest., Robert Moody, secy., J. L. Harwood, treas., J. Myles, mgr. and supt. Cap. stk. \$10,000. Lead and zinc. Shaft, 500 tons. steam.	
"		"	Standard Lead & Zinc Mining Co., F. W. Johns, prest., Arthur Spencer, secy., J. H. Dungenfield, treas. and mgr. Cap. stk. \$15,000. Standard, zinc, blende. Shaft, 5,000 tons. hand, steam. H. L. Dungenfield, supt.	
"		"	Sterling Lead & Zinc Co., New York City, 55 Broadway. G. N. Bacon, prest., P. S. Sanna, secy. and treas. and mgr. Sterling, lead, zinc. Shaft, 350 tons. steam. L. Horton, supt.	
"		"	Wenrich Lead & Zinc Co., Mansfield, Ohio, S. N. Mann st., W. L. Swell, prest., H. P. Swell, secy., S. P. Lick, treas. Cap. stk. \$15,000. Wenrich, lead, zinc. Shaft, hand, steam. D. K. Wenrich, supt.	
"		"	West Hollow Lead & Zinc Co., St. Louis, Mo., Washington st. J. Selig, prest., Cap. stk. \$20,000. Star, lead, blende. Shaft, 1,000 tons. steam. A. Sturman, mgr. and supt.	
"		"	F. J. Williams & D. Hamill. Big Run, zinc. Shaft, 1,000 tons. steam, horse. J. W. Orr, supt.	
"		"	Windsor Mining Co., Kansas City, Mo., to E. Sixth st., R. Robertson, prest., J. L. Norman, secy. and treas., Ernest L. Robertson, mgr. Cap. \$20,000. Lead, zinc.	
Delhi.	Jasper	Franklin Zinc Co., F. L. Johnston, prest. and treas., J. S. Hayton, secy., J. B. Johnston, mgr. and supt. Cap. stk. \$20,000. Delhi, zinc, lead. Shaft, slope, 5,000 tons. steam.		
Ry. Carthage 720.	"	St. Louis Zinc Mining Co., St. Louis, Mo., 47 and to N. Third st., J. L. Lawton, prest., secy. and treas. W. A. Hwin, mgr. and supt. Cap. stk. \$10,000. Nickel Plate, zinc. Shaft, open pit, 1,000 tons. steam.		
"	"	White Elephant Zinc Co., A. H. Rogers, prest., C. S. Thomas, mgr. Cap. stk. \$10,000. White Elephant, zinc. Open pit. L. Evans, supt.		
Mansfield.	Wright	Dodson Lead & Zinc Co., Bethlehem, Pa., Trimmer M. Dodson, prest., Josiah Bachman, secy. and treas. Cap. stk. \$10,000. Zinc, lead. Shaft, steam, developing.		
Ry. 68.				
Mine La Motte.	Madison	Rowland Hazard. Mine La Motte, lead. Shaft, steam, furnace. J. D. Sanders, supt.		
Ry. 60.				
Mineral Point.	Washington	J. F. Richardson. Walton, Mesplay and others, lead. Shaft. furnace.		
Ry. 714.				
Mimrod.	Greene	Gumbo Mining Co., Cap. \$850. Gumbo, lead, zinc. Shaft, 60 tons. steam. S. D. Ramsay, supt.		
Ry. Butler 38.				
Old Mines.	Washington	Union Mining & Smelting Co., St. Louis, Mo., C. B. Barnham, prest., W. H. Davis, secy., G. W. Chadbourne, treas., Alex. Harrison, mgr. and supt. Cap. stk. \$80,000. Old Mine, lead. Shaft, 600 tons. steam, blast furnace, 1,000 tons.		
Ry. Caled 60.				
Owego.	Jasper	John Lowry & Co., Sunshine, lead, zinc. Shaft, tunnel, 1,200 tons. horse, hand. John Lowry, supt.		
Ry. 720.	"	Marguerite Mining Co., Geo. J. Marguerite, prest. and treas. and mgr., Chas. M. Reynolds, secy., Cap. stk. \$30,000. Marguerite, lead and zinc. Shaft, steam, developing.		
"	"	Peak Mining Co., Webb City, Mo., L. R. Read, prest., S. S. Rice, secy., James Gammon, treas., A. L. Henderson, mgr. and supt. Lead, zinc. Shaft, drift, steam, developing.		
Palmer.	Washington	Palmer Level Co., J. H. Answorth, prest. and secy., P. J. Cummings, treas., L. L. Bloom, mgr. and supt. Cap. stk. \$10,000. Lead. Shaft, 900 tons. horse, furnace.		
Ry. Potosi 714.				
Persimmon.	Boone	Fort Smith Mining & Smelting Co., Fort Smith, Ark., 1000 Hickory st., Del. Young, prest., S. A. Williams, secy., Charles Hall, treas., R. H. Edwards, mgr. and supt. Cap. stk. \$20,000. Upper Ten, lead, zinc. Shaft, drift, 30 tons. steam.		
P. O. Swartzler.	Ry.			
784.				
Potosi.	Washington	F. A. & P. McArthur, Toronto, Canada. Lead, zinc. Surface, air furnace. Hugh McCreagh, mgr.		
Ry. 714.				
Prosperity.	Jasper	Tromp Mining Co., Webb City. Joseph H. Clark, prest., Charles E. Robinson, secy. and treas., S. H. Cobb, mgr. Cap. stk. \$10,000. Tromp, lead, zinc. Shaft, 7,250 tons. steam.		
Ry. Webb City 318, 460, 720.				
Scotland.	Jasper	Speed Bros., Joplin, Mo., Cap. \$10,000. Speed Bros., lead, zinc. Shaft, 1,000 tons. steam. Sidney Speed, supt.		
Ry. Webb City 318, 460, 720.				

LEAD AND ZINC—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Steelville	Crawford	Star Mining Co., H. S. Walbridge, prest.; J. F. Evans, secy.; Thos. R. Gibson, treas.; W. A. Metcalf, mgr. Ky. 729. Cap. stk. \$50,000. Courtois, lead, zinc. Shaft, steam; air furnace. H. W. Nethington, supt.		
Webb City	Jasper	Ashcroft-Reynolds Co., John R. Reynolds, prest.; C. M. Reynolds, secy. and treas.; G. P. Ashcroft, mgr. Ky. 348, 460, 729. and supt. Cap. \$800,000. Ashcroft-Reynolds, lead, zinc. Shaft, 300 tons; steam.		
"	"	Bair & McLeland. Lead and zinc. Shaft, 520 tons; horse. J. W. Bair, supt.		
"	"	Caldwell & Co. Zinc, blende. Shaft; steam.		
"	"	Center Creek Mining Co., St. Louis, Mo., 213 N. Eighth st. B. F. Hammett, prest.; J. C. Stewart, secy. and mgr.; W. C. Stewart, treas. Cap. stk. \$1,500,000. Center Creek, lead, zinc. Shaft, 18,147 tons; steam.		
"	"	Chatham Mining Co., Chatham, N. Y. A. E. Tracy, prest.; James Smith, secy. and treas.; J. A. Smith, mgr. and supt. Cap. stk. \$10,000. Chatham, zinc, lead. Shaft, tunnel, 6,500 tons; hand.		
"	"	Columbia & Gammon. No. 5, lead, zinc. Shaft, tunnel, 7,500 tons; steam. James B. White, supt.		
"	"	W. G. Davison. Cap. \$10,000. Lead, zinc. Shaft, 4,000 tons; steam, horse, hand. J. R. Seay, supt.		
"	"	Dayton Mining Co., H. W. Fullerton, mgr. Cap. \$15,000. Dayton, lead, zinc. Shaft, 2,500 tons; steam. I. M. Tabor, supt.		
"	"	Eleventh Hour Mining Co., J. W. Aylor, prest.; H. H. Aylor, secy.; A. W. Aylor, treas.; F. Brunnerman, mgr. and supt. Cap. stk. \$50,000. Eleventh Hour, lead, zinc. Shaft, drift, 15,000 tons; steam, horse.		
"	"	Garrison Lead & Zinc Co., O. F. Garrison, prest. and mgr.; Thornton Ware, secy.; Geo. W. Ware, treas. Cap. \$90,000. Garrison, zinc, lead. Shaft, 2,100 tons; steam. I. H. Schalk, supt.		
"	"	Home & Co. Tenderfoot, lead, zinc. Shaft, 400 tons; steam. C. C. Home, supt.		
"	"	Horton & Co. Zinc, lead. Shaft, 600 tons; steam, hand. Monroe Horton, supt.		
"	"	A. W. Hough. Lead, zinc. Shaft, drift, 600 tons; steam.		
"	"	Houghton & Son. Cap. \$5,000. Zinc, lead. Shaft, 1,000 tons; steam. Joseph Houghton, supt.		
"	"	Keller Mining Co., E. L. Martin, prest.; W. F. Duvall, secy.; H. B. High, treas.; J. K. Brugler, mgr. and supt. Cap. stk. \$60,000. Keller, lead, zinc. Steam.		
"	"	J. F. Lewis. Sucker Flat, zinc, lead. Shaft, 550 tons; steam.		
"	"	F. E. Martin & Co. Martin Bird, lead, zinc. Shaft, 1,000 tons; steam. F. E. Martin, supt.		
"	"	Missouri & Illinois Lead & Zinc Mining Co., F. S. Bennett, prest.; A. P. Charles, v. prest.; G. M. Over- hiser, secy. and supt.; J. M. O'Brien, treas. and mgr. Cap. stk. \$800,000. Lead, zinc. Shaft; steam (developing).		
"	"	Morning Star Mining Co., Joplin, Mo., 301 Sargent st. Monroe Clark, prest.; S. C. Price, secy.; John F. Wise, treas.; J. A. Hewitt, mgr. Cap. stk. \$10,000. Morning Star, zinc. Shaft, 1,000 tons; steam. Wm. Corrine, supt.		
"	"	Mound City Mining Co., St. Louis, Mo., Louis Grand, prest.; A. H. Brueggeman, secy.; Phil. H. Lenz, treas.; Louis Helm, mgr. and supt. Cap. stk. \$100,000. Mound City, lead, zinc, blende. Shaft.		
"	"	Nevada Mining Co., A. L. Hazleton, prest.; W. H. Keeler, secy., mgr. and supt.; E. F. Clark, treas. Cap. stk. \$80,000. Nevada, lead, zinc, blende. Shaft, 1,400 tons.		
"	"	Noble Mining Co., Joplin, Mo., 816 Pearl st. W. E. Campbell, prest.; W. D. Campbell, secy.; Webb City Exchange Bank, treas.; W. R. Duncan, mgr. and supt. Noble, lead, zinc. Shaft, steam.		
"	"	D. M. Page, Joplin, Mo. Zinc. Shaft, steam.		
"	"	Perkins & Co. Cap. \$10,000. Carthage, zinc. Shaft, 3 tons; horse. Isaac Perkins, supt.		
"	"	Richland Mining Co., Mansfield Ohio. B. F. Crawford, prest.; J. M. Waugh, secy. and treas. Cap. stk. \$100,000. Richland, lead, zinc. Shaft, 3,600 tons; steam. J. A. Hardy, supt.		
"	"	A. T. Steelman. Cap. \$20,000. Buck Horn, zinc, lead. Shaft, 558 tons; steam. H. W. Bowman, mgr. and supt.		
"	"	Stevison, Wampler & Co. Cap. \$60,000. Lead, zinc. Shaft, 3,600 tons; steam. L. J. Stevison, supt.		
"	"	Victor Mining Co., Monroe P. Welton, prest.; Thomas R. Cobb, secy.; John W. Arnold, treas. Cap. stk. \$100,000. Victor, zinc. Shaft, 8,000 tons; steam. E. I. Schoeder, supt.		
Zincite	Jasper	Alvey & Cheyenger. Alvey Discovery, zinc, lead. Shaft; steam.		
Ry. Belleville 48.				
"	"	J. Copley. Cap. \$18,000. Zinc, blende. Shaft, 800 tons; steam.		
"	"	Gold Button Mining Co., C. C. Wheeler, prest.; John N. Burgess, secy., treas., mgr. and supt. Cap. stk. \$1,000. Gold Button, zinc, blende, lead. Shaft, 100 tons; horse.		

MINERAL PAINT

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Dry Branch	Franklin	Robert Heyns. White baryles, ore paint. Shaft, hand.		
Ry. 729.				
"	"	Hybbard & Pickles. Booth, iron paint etc. lead. Hand.		
Mineral Point, Washingt'n		Mrs. L. D. Bone. Boaz. 2,334 tons		
Ry. 714				

STONE, MARBLE, GRANITE AND ONYX

TOWN	AND	COUNTY	LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF TOWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
Bokeh		Franklin	Tavern Rock Sand Co., St. Louis, Mo., 306 Commercial Bldg.	L. C. Garrett, pres., W. H. Garrett, secy., A. T. Lamm, mgr.	Cape, \$50,000.	Tavern Rock, white sandstone. Open pit, 120,000 tons; steam, mill, Tom Tracy, supt.
Bonhoun		Crawford	F. W. Linn, St. Louis, Mo., 2,300 Hebert st.	Salamanca, sandstone.	Steam.	
"		"	Moore & Richards.	Cape, \$12,000.	Onyx.	Shatt, tunnel, hand. E. E. Moore, mgr. and supt.
Cape Girardeau		Cape Girardeau	Cape Lime & Marble Co.	Marble.	Open pit, horse.	limekiln, 2,000 brls.
Cartilage		Jasper	Cartilage Marble & White Lime Co., St. Louis, Mo., 904 Olive st., Room 71.	Geo. T. Riddle, pres., H. T. Gratzemacher, secy.	Cape, stk, \$25,000.	Cartilage, marble, limestone. Open pit, 6,000 tons; steam, mill, Mich. Torphy, supt.
"		"	Cartilage Quarry & Construction Co., Box 301.	G. M. Viernow, pres., J. R. Nichols, secy.; Luke McLaughlin, treas.; M. E. Viernow, mgr. and supt.	Cape, stk, \$25,000.	Limestone, 5,000 tons; steam, mill.
De Witt		Carroll	Carroll County Sand Stone Co.	Cape, stk, \$10,000.	Carroll County Quarry, white sandstone.	Open pit, 3,000 tons; steam, mill, L. H. Smith, supt.
Glen Park		Jefferson	Lime Co. of St. Louis, St. Louis, Mo., 1346 Chestnut st.	Charles W. S. Cobb, pres., Theo. W. C. Bolin, secy.; P. J. Dameron, treas.	Cape, stk, \$2,000.	Glenwood, limestone, 12,000 tons. Peter McLean, supt.
Grandville		Iron	Schneider Granite Co., St. Louis, Mo., Knudt Bldg., 302 Olive st.	P. W. Schneider, pres., Julius A. Schneider, secy. and treas.; P. W. Schneider, Jr., mgr.	Cape, stk, \$75,000.	Schneider, granite. Open, 25,000 tons; steam, mill, John Hughes, supt.
"		"	Syente Granite Co., St. Louis, Mo., 175 S. Fourth st.	Wm. R. Allen, pres.; J. W. Wallace, secy.; Thomas L. Walsh, treas.; L. M. Smith, Jr., pres. and supt.	Cape, stk, \$800,000.	Granite, 11,000 tons; steam, mill.
Knob Lick		St. Francis	Skranka Construction Co., St. Louis, Mo., Granite Bldg., 404 Market st.	Louis Skranka, pres.; Morris Skranka, secy. and treas.; James Thornley, mgr. and supt.	Cape, stk, \$5,000.	Andy, stk \$105,000. Skranka, granite. Open pit, slope, 12,000 tons; steam, horse.
Roth		Phelps	J. L. Baskett.	Fine clay.	3,000 tons.	
Ste. Genevieve		Ste. Genevieve	Julius Boyer.	Cape, \$7,000.	Limestone.	Open pit, hand, limekiln, capacity 1,200 tons.
"		"	Fernand Moser.	Cape, \$10,000.	St. Genevieve, oolitic limestone.	Slope, 3,000 tons; horse, hand, limekiln, capacity 1,000 tons.
St. Clair		Pettis	Sedalia Mining & Prospecting Co., 27 Dempsy Bldg.	J. G. White, pres.; Jonathan Meets, secy.; F. W. Shultz, treas.; G. M. Babcock, mgr.	Cape, stk, \$90,000.	Sedalia, stone, gravel. Open pit, steam, mill.
South Greenfield		Deale	Hinckley Stone Co., J. E. Hinckley, pres.; R. W. Jay, secy. and treas.; J. M. Hodges, mgr.	Cape, stk, \$70,000.	South Greenfield Quarry, limestone.	Open pit, steam, mill, J. B. 7,000 tons.
Sullivan		Franklin	Morgan Onyx & Metal Co., Boston, Mass., the Bedford st.	Walter L. Church, pres.; J. F. Myers, secy. and treas.	Cape, stk, \$200,000.	Hamilton, onyx, hand, red ochre. Shatt, open, steam.
Angus Station		St. Louis	Crystal Springs Quarry Co., St. Louis, Mo., the Market st.	Charles E. Meyer, pres. and treas.; A. R. Hopkins, secy.	Cape, stk, \$10,000.	Crystal Springs, limestone, 100,000 tons; hand, mill.
Warrensburg		Johnson	Lawrence Brown, St. Louis, Mo., Jefferson av. and Mo. P. Ry.	Mar. R. Miller, mgr. and supt.	Cape, \$20,000.	Warrensburg, blue and white sandstone. Open pit, 10,000 tons; steam, mill.

SEE ALSO SUPPLEMENTARY LIST

MONTANA

ASBESTOS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	COUNTY		
Bozeman Ry. 529.	Gallatin	Gallatin Asbestos Mining Co., Theo. Schweitzer, pres., and mgr., E. D. Ellis, secy.; Geo. W. Ellis, mgr., Cap. stk. \$250,000. Jumbo and Little Kid. Shaft and tunnel, 15,000 tons.	

COAL—BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWNS	COUNTY		
Blossburg Ry. 529.	Deer Lodge	Mullan Pass Coal Co., Mullan Pass. Shaft and slope; steam (developing).	
Castle Ry. Livingston 529 14 miles.	Mongier	Black Diamond Coal & Coke Co. (closed). Daniel Sharp, pres., and treas.; Burt Marsh, secy., and mgr., Cap. stk. \$750,000. Black Diamond. Shaft and tunnel, 10,000 tons; steam; 4 coke ovens.	
"	"	R. F. Carney (closed). Black Giant. Tunnel, 3,000 tons; horse and hand.	
"	"	Castle Coal & Coke Co., O. P. Dalney, pres.; Mrs. Lottie Donovan, secy.; Mrs. Mary Donnet, treas.; David Donnet, mgr. Cap. stk. \$500,000. Castle. Shafts and tunnels; water (developing).	
Coke-lake Ry. Livingston 529.	Park	Livingston Coke & Coal Co., Helena, Mont. S. T. Hanser, pres.; A. J. Seligman, treas., O. R. Allen, mgr., Livingston. Tunnels and slopes, 90,000 tons; steam; washer and crusher, 100 coke ovens, 30- 100 tons. Geo. T. Wickes, supt.	
Hoot Ry. 529.	Park	Park Coal & Coke Co., J. H. Conrad, pres.; P. A. Krieger, secy.; S. C. Hunter, treas., and mgr. Cap. stk. \$1,000,000. Hoot. Tunnel and slope, 41,000 tons; steam; washer, 40 coke ovens, 18,000 tons.	
Lewiston Ry. Billings 529.	Pegans	Conway & Shaples (closed). W. A. Shaples, mgr. Cap. \$10,000. Democrat. Tunnels, 400 tons; hand. William Alfred, supt.	
Park City Ry. 529.	Yellowstone	C. M. O'Flaherty, Valley Creek. Tunnel, 1,200 tons; horse.	
Red Lodge Ry. 529.	Park	Rocky Fork Coal Co., C. A. Spofford, pres.; Edward Edes, secy.; J. M. Fox, mgr. Cap. stk. \$2,000,000. Rocky Fork. Tunnels and slope, 25,000 tons; steam, electricity and horse. Wm. O'Connor, supt.	
Sandowhee Ry. 295.	Cascade	Sandowhee Coal Co., St. Paul, Minn., Great Northern Ry. Bldg. Henry R. Crocker, pres.; W. B. Roberts, secy.; C. C. Husey, treas.; Henry Burrell, mgr. and supt. Cap. stk. \$500,000. Sandowhee. Tunnel, 300,000 tons; hand and compressed air.	
Timberline Ry. 529.	Gallatin	C. W. Hoffman, Timberline. Tunnel and slopes, 45,000 tons; steam. Jas. Anderson, supt.	

COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	COUNTY		
Butte City Ry. 239, 529, 775.	Silver Bow	Parrot Silver & Copper Co., Franklin Parrot, pres.; J. E. Gaylord, secy., treas., and mgr. Cap. stk. \$1,800,000. Parrot, copper. Shaft, tetrajectory; steam. Ben. Tibby, supt.	
White Sulphur Springs Ry. Town-and 529 750 miles.	Mongier	Spencer, Mayn & Heitman. North Pacific, Hecla, Jamison and Copper Duke. Shafts, hand.	

FIRE CLAY

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.	
TOWNS	COUNTY		
Armcohill Ry. 469.	Deer Lodge	Lost Creek Fire Brick & Silica Co., South Elgin, Mont., and Utah av., Onslow Peters, pres.; John McMurry, secy., Wm. Layton, treas., George Fairweather, mgr. and supt. Cap. stk. \$500,000. Mountain Boy and White Mountain. Open pit, 2,000 tons; water and steam; stone crusher.	
Blossburg Ry. 529.	Deer Lodge	Mullan Fire Brick & Tile Co., Helena, Mont. T. C. Power, pres.; J. R. Whitmore, secy., treas., and mgr., Cap. stk. \$25,000. Open pit, 5,000 tons; steam.	

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	COUNTY.		
Amnicola	Deer Lodge	Ginn & Todd, Mountain Vein and Caribou, gold and silver. Shaft, retractory, hand.	
Ry, 423 (11 miles).			
Argentina	Deer Lodge	St. Louis & Argentina Mining Co., St. Louis Mo., 1431 N. Fifteenth st., Jas. Peters, prest. and treas., J. Smith, secy., Cap. stk. \$1,000,000. Dexter and Snowdrift, gold, silver and lead. Shaft, retractory, steam. W. H. Dudley, supt.	
Ry, Dillon 776 (29 miles).			
Augusta, Lewis and Clarke		L. S. & G. C. Goss, Silver King, silver and lead. Tunnel, 2 tons; hand.	
Ry, Great Falls 295.			
Avalanche	Meagher	Wesley Basye, Avalanche Gulch, gold. Placer, slope, hydraulic (developing)	
(P. O. Union Ry, Dar- ker 223 (29 miles).			
Avon	Deer Lodge	R. W. A. Mueller, Washington Gulch, Mont., Little Chief, gold, silver, copper and lead. Shaft, hand.	
Ry, 529.			
Baker City	Deer Lodge	Forest Queen Mining Co., W. Bedding, prest., M. H. Keith, secy., J. E. Fausse, treas., Thomas Irwin, mgr. and supt. Cap. stk. \$250,000. Forest Queen, gold, silver and lead. Tunnel, free (developing).	
(P. O. Edmunds) Ry, 776 (12 miles).			
Bald Butte	Deer Lodge	Bald Butte Mining Co., Helena, Mont., Wm. Chumassero, prest., R. H. Latam, secy., treas. and mgr., Cap. stk. \$250,000. Bald Butte Group, 5 mines, gold and silver. Shaft and tunnel, 12,000 tons; free. Steam, 20 stamps. Thomas Smoot, supt.	
Ry, Marysville 529.			
Bannack	Deer Lodge	Bannack Ditch & Mining Co., F. L. Graves, prest. and treas., A. F. Graeter, secy., mgr. and supt. Cap. stk. \$100,000. Gold, Placer, hydraulic	
Ry, Red Rock 776			
"	"	Dyer Creek Placer Mining Co., W. Fischer, prest., John C. Carlson, secy. and mgr., A. H. Lapham, treas. and supt. Cap. stk. \$30,000. Dyer Creek, gold. Open pit, water.	
"	"	Fred North & Co., P. Dark, gold, silver and lead. Shaft, 16 tons. Fred North, supt.	
"	"		
Barker	Meagher	Utah Mining Co., Great Falls, Mont., T. L. Bishop, prest., James Law, secy. and treas., Alex. Anderson, mgr. and supt. Cap. stk. \$70,000. Utah, silver and lead. Shaft and tunnel, 100 tons; steam.	
Ry, 233.			
"	"	Alce Mining Co., J. J. Hendenreich, prest., mgr. and supt., Adolph Hendenreich, treas., Alce, silver and lead. Shaft and tunnel, 50 tons; retractory, steam.	
"	"	Albion Mining & Mining Co., P. C. Roy, prest., Matthias Kutzback, prest., Chas. Welling, a prest., H. C. Shipley, secy. and treas., Henry Vorherr, mgr. and supt. Cap. stk. \$100,000. Indiv. exp. \$50,000. Gulf of Barker, gold, silver and lead. Shaft and tunnel, free, hand (developing).	
"	"	Barker Mining Co., T. C. Fowler, prest., J. L. Townsend, secy., A. Johnson, treas., A. J. Cowin, mgr. and supt. Cap. stk. \$250,000. Black F., silver and lead. Shaft and tunnel, retractory, steam.	
"	"	Black Hawk Mining Co., Great Falls, Mont., Central av., Jesse F. Henry, prest., Geo. W. Taylor, secy. and treas., John Williams, mgr. Cap. stk. \$500,000. Black Hawk, Edinette and Black Hawk No. 2, gold, silver, galena. Shaft and tunnel, 50 tons; retractory, hand. M. C. Larkin, supt.	
"	"	Dry Fork Mining Co., C. H. Benton, prest., A. F. Diebman, a prest., F. W. Thompson, secy., Will Hawks, treas., S. J. Merritt, mgr. and supt. Cap. stk. \$100,000. Utah, silver and lead. Shaft, free, horse.	
"	"	H. C. Foster & Co., Silver Bell, silver and lead. Shaft and tunnel, 15,000 tons; steam.	
"	"	Galena City Consolidated Mining Co., Great Falls, Mont., 229 Central av., R. R. Ortman, prest., W. B. Burleigh, secy. and treas. Cap. stk. \$1,000,000. Wild Bull, Riverside, Snowslide and Queen of the Gulch, silver. Shafts and tunnel, free and retractory, hand (developing).	
"	"	Idol Gold & Silver Mining Co., Great Falls, Mont., T. E. Collins, prest., T. A. Ringwald, secy. and treas., Peter Harrison, mgr. and supt. Cap. stk. \$1,000,000. T. W., silver and lead. Shaft and tunnel, 100 tons; retractory, hand.	
"	"	Magnolia & St. Louis Mining Co., Jessie Henry, prest., James Marr, secy., Louis Goshin, treas., Michael C. Larkin, mgr. and supt. Magnolia, St. Louis, gold, silver, copper and lead. Shaft and tunnel, retractory and free, hand.	
"	"	May & Edna Mining Co., Armington, Mont., J. E. Armington, prest., treas. and mgr., Wm. McGowan, secy., May, Edna, Anne May and Mueller, gold and silver, 4,000 tons; free, retractory. Geo. E. Price, supt.	
"	"	Silver State Mining Co., Great Falls, Mont., 100 Central av., F. Schmidt, prest., Wm. Albrecht, secy., treas. and mgr. Cap. stk. \$300,000. Lookout, silver and lead. Shaft and tunnel, free, hand.	
"	"	Silver Tip Mining Co., Great Falls, Mont., 100 Central av., Thos. W. Thompson, prest., Thos. Gallagher, secy. and treas., John L. Lee, mgr. and supt. Cap. stk. \$500,000. Silver Tip, gold, silver and lead. Shaft and tunnel, 5,000 tons; free, hand.	
"	"	Waters, Northan & Wilson, Barker, Mont., Perry Lode, silver and lead. Tunnel and shaft, hand (developing).	
Basin	Jefferson	Basin Mining & Concentrating Co., Helena, Mont., A. N. Spratt, prest., F. N. Fletcher, secy. and treas., H. W. Child, mgr. Cap. stk. \$300,000. Hope, gold, silver and lead. Shaft, 20,000 tons; retractory, steam. F. C. Gilbert, supt.	
Ry, 295, 529			
"	"	Kane, Potting & Judge, Thomas Kane, mgr., Deer Lodge, gold, silver and lead. Tunnel, 600 tons.	
"	"	John C. Rand & Co., Red Rock, gold, silver and lead. Shaft and tunnel, 36 tons; free and retractory, horse.	
"	"	Smith & Moore, Cap. \$5,000. Black Rock, gold, silver and lead. Tunnels and shafts, 20 tons; retractory, hand.	
"	"	Weser Mining Co., Henry Braden, prest., David Marks, secy., L. G. Phelps, treas., H. L. G. Winter, mgr. Cap. stk. \$400,000. Weser, gold, silver and lead. Shaft and tunnel, retractory.	
Bear Park	Meagher	Bear Park Mining Co., Great Falls, Mont., 312 Central av., J. R. Stedman, prest., John Canby, secy., Edward O'Reilly, treas., Edgar Boling, mgr. and supt. Cap. stk. \$1,000,000. H. Nelson, Belva, a Broncho and Ute, gold, silver, lead and copper. Shaft and tunnel, free, hand.	
(P. O. Union Ry, Dar- ker 223 (29 miles).			
Beartown	Deer Lodge	Loomis & Stone, Cap. \$5,000. Chemmantha, gold. Placer, 200 tons; steam, m.	
Ry, Bear's Mouth 529			

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Big Timber	Park		Crown Mining Co., Billings, Mont.	Samuel F. Mitchell, mgr. Crown, gold and silver. Shaft; free hand; 3 stamps.
Ry., 529 (60 miles).				
"	"		Hicks Park Mining Co., C. S. Busha, prest.; Benj. Umer jr., secy and treas.; John Reifro, mgr. and supt. Cap. stk. \$25,000.	Hicks Park, gold. Placer (developing).
"	"		Mamie Mining Co., A. D. Siddle, prest.; Geo. R. Umer, secy. Cap. stk. \$1,000,000.	Mamie and Goodie, gold and silver. Shaft; free, steam; 5 stamps.
"	"		Foot Man's Mining Co., A. N. Hawley, prest., mgr. and supt.; H. M. Allen, secy. and treas. Cap. stk. \$2,500,000.	Footman, gold and silver. Shaft, free, steam; 3 stamps.
Bird Creek, Meagher (P. O. White Sulphur Springs, Helena 529.			Bird Creek Mining Co., J. C. Dowdton, prest. and supt.; A. Bonnard, secy. and treas.; J. G. Pickering, mgr. Cap. stk. \$300,000.	Cleveland, Carrie and Ready Cash, gold and silver. Tunnel and shafts; free and refractory, horse.
Blackhawk, Meagher Ry., Livingston 529.			Alce Mining Co., Martinsdale, Mont. J. M. Smith, prest.; J. A. McNaught, secy.; John Falter, treas.; W. A. Smith, mgr. and supt. Cap. stk. \$500,000.	Alce, Bonholder, Alvina and Annie Maud, silver and lead. Shaft, free, steam.
"	"		Black Hawk Mining Co., Martinsdale, Mont. J. M. Smith, prest.; N. B. Smith, secy.; James T. Wood, treas.; W. A. Smith, mgr. Cap. stk. \$300,000.	Blackhawk, Mohawk and Altha, silver and lead. Shaft, free; horse (developing).
"	"		Donnan & Fitzpatrick, John Donnan, mgr. and supt. Cap. \$10,000.	Conio and Tiger, silver and lead. Shafts, free; hand.
"	"		Grant Mining Co., Bozeman, Mont. E. E. Fowler, prest. and mgr.; F. S. Webster, secy.; W. H. Poorman, treas. Cap. stk. \$3,000,000.	Waterloo and International, silver and lead. Shaft; free, horse and water. J. M. Lyons, supt.
"	"		Legal Tender Mining Co., White Sulphur Springs, Mont. Wm. Parberry, prest.; D. E. Folsom, secy.; John A. Woodson, treas.; V. J. McPherson, mgr. and supt. Cap. stk. \$5,000,000.	Legal Tender and Aurora, silver. Slope and shaft, steam, free.
"	"		Trumvirate Mining Co., N. B. Smith, prest.; John L. Fraser, secy. and treas.; Elmer E. Phillips, mgr. and supt. Cap. stk. \$600,000.	Big Mogul, Little Mogul and Hodges Faction, silver, lead and iron. Shaft, hand (developing).
Boulder, Jefferson (P. O. Boulder Valley) Ry., 529, 530.			Finney & Redell, Wm. T. Sweet, prest.; Will E. Redell, secy.; Hon. Judge Buck, treas.; Frank L. Finney, mgr. and supt. Cap. \$600,000.	Seneca, gold, silver and lead. Shafts, 50 tons, hand, refractory.
"	"		Rocky Mountain Mining Co., Jesse Patterson, prest. and mgr.; Frank Bernatz, secy.; W. P. Hoopes, treas. Cap. stk. \$800,000.	Hoosier Boy, silver and lead. Shaft, steam.
Butte City, Silver Bow Ry., 529, 530, 469.			Amy & Silversmith Consolidated Mining Co., George W. Ryan, prest. and mgr. Joseph A. Long, secy.; M. P. Browder, treas. Cap. stk. \$2,000,000.	Amy, gold and silver. Shaft, 1,000 tons, refractory, steam.
"	"		Anacostia Mining Co., J. B. Haggin, prest.; F. E. Sargeant, secy.; Marcus Daly, mgr. Cap. stk. \$2,000,000.	Anacostia Mine and 45 other claims, silver and copper. Shafts, 1,200,000 tons, refractory; steam, water and electricity, mill. Patrick Kane and Joseph Laird, supts.
"	"		Arlington Mining Co., New York City, 15 Wall st. Geo. C. Magoon, prest.; Geo. F. Crane, secy. and treas.; C. W. Goodale, mgr. and supt. Cap. stk. \$200,000.	Star West and Mountain Boy, gold and silver. Shaft, 2,000 tons, refractory, steam.
"	"		Blue Bird Mining Co., Ltd., F. Van Zandt, prest.; W. G. Dadrach, secy. and treas.; W. H. Keller, mgr. Cap. stk. \$1,000,000.	Blue Bird, silver. Shaft, 50,000 tons, refractory; steam, 80 stamps. W. W. Adams, supt.
"	"		Boston & Montana Consolidated Copper & Silver Mining Co., Boston, Mass. Sears Building. A. S. Bazel, prest.; Thos. Nelson, secy. and treas.; Thos. Couch, mgr. and supt. Cap. stk. \$3,125,000.	Mount and View, East and West, Colusa and others, silver and copper. Shaft, 150,000 tons, steam, burners.
"	"		Butte & Boston Mining Co., Boston, Mass. Sears Bldg. S. M. Crosby, prest.; A. S. Bigelow, secy. and treas.; C. H. Palmer, mgr. Cap. stk. \$5,000,000.	Butte and Boston, silver and copper. Shafts, 162,000 tons, free and refractory, steam; 40 stamps. Jas. Houston, supt.
"	"		W. A. Clark, cor. Broadway and Main sts. R. G. Brown, mgr. and supt. Black Rock, silver. Shaft, 1,600 tons, refractory, steam.	
"	"		Colorado Smelting & Mining Co., Denver, Colo., Boston Block, Seventeenth st. N. P. Hill, prest.; H. R. Wolcott, secy. and treas.; Henry Williams, mgr.; C. W. Goodale, supt. Cap. stk. \$1,000,000.	Graham, Caladonia, Nettie, Burlington and others, gold, silver and copper. Shaft, 60,000 tons, free and refractory, steam.
"	"		Comanche Mining Co., 29 W. Broadway. P. A. Largey, prest.; Chas. S. Warren, secy.; L. A. Mantle, treas.; Geo. H. Tong, mgr. and supt. Cap. stk. \$1,000,000.	Comanche, silver and copper. 60,000 tons, refractory, steam.
"	"		Electric Mining & Reduction Co., 16 N. Main st. R. C. W. Evans, prest.; Ben. F. O'Neill, secy. and treas.; J. H. Cuddeback, mgr. Cap. stk. \$450,000.	Electric Nos. 1, 2, 3 and 4, gold. Shaft, free, hand.
"	"		I. Fendenstein, 40 W. Mercury st. Germania, gold and silver. Shaft, 5,000 tons, refractory, steam.	
"	"		Glenary Mining & Milling Co., W. R. Kenyon, prest.; H. C. Caney, secy. and mgr.; J. V. Long, treas. Cap. stk. \$2,000,000.	Glenary, gold and silver. Shaft, 1,500 tons, refractory, steam.
"	"		John A. Leggett, 267 Montana St., P. O. Box 115. Cap. \$100,000.	Gambetta, Victoria, Eureka and Collins, gold, silver and copper. Shafts, tunnels and slopes, 25,000 tons, free, refractory, steam, water, horse and hand.
"	"		Montana Mining, Loan & Investment Co., cor. Park and Main sts. Henry L. Haupt, prest.; treas. and mgr.; Chas. J. Stevenson, secy. Cap. stk. \$12,000,000.	Fourteen claims, gold, silver and copper (developing).
"	"		The Opium Mining Co., P. O. Box 427. F. G. Lamson, prest. and mgr.; H. R. Mills, secy.; W. C. King, treas. Cap. stk. \$1,500,000.	Opium, gold and silver. Shaft, 4,000 tons, refractory, steam. W. C. King, supt.

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN	AND	COUNTY.	
Butte City..	Silver Bow		Original Mining Co., Broadway and Main sts., W. A. Clark, prest., Bryan Hyatt, seey., A. J. Johnson, treas., R. G. Brown, mgt. and supt., Cap. stk. \$750,000. Original, silver and copper. Slope, 1,000 tons; refractory, steam.
"	"	"	Vanner Mining Co., 16 N. Main st., R. C. W. Evans, prest. and mgt., Ben. F. Orenti, seey. and treas., Cap. stk. \$1,000,000. Golden rove, gold. Shaft, tree, hand.
Calder	Deer Lodge		Cable Mining Co., James C. Savory, prest. and supt., Cap. stk. \$200,000. Cable, gold. Tunnel, tree, steam, 20 stamps.
Canyon Ferry	Mongher		Bell Gate Mining Co., Helena, Mont., 100 Butte av. W. H. Muckey, prest., W. R. Barnes, seey., John Oaks, treas., S. Barnes, mgt., Cap. stk. \$200,000. Bell Gate, gold. Placer.
"	"	"	Van Camp Mining Co., Henry Van Camp, prest., seey. and mgt., John S. Biswell, treas., Cap. stk. \$75,000. Cooper Gulch, gold. Placer, hydraulic.
Carter	Missoula		El Dorado Mining Co., Missoula, Mont., M. G. Rutherford, prest., mgt. and supt., H. R. Hancock, seey. and treas., Cap. stk. \$200,000. El Dorado and Harrison, silver and lead. Shaft and tunnel, 3,000 tons; hand.
"	"	"	Silver Gulch Mining Co., Missoula, Mont., J. H. E. Foster, prest., E. A. Winstanley, seey. and treas., J. M. Hargrave, mgt. and supt., Cap. stk. \$1,000,000. Silver Gulch, silver and lead. Tunnel, refractory, hand.
Castle	Mongher		Ahor Mining Co., Martinsdale, Mont., John A. Smith, prest., J. A. McNaught, seey., John Potter, treas., W. A. Smith, mgt., Cap. stk. \$200,000. Bonholder, silver, gold, and iron. Shaft, refractory, steam, developing.
"	"	"	American Mining Co., T. M. Hensley, prest., J. P. Rhoads, seey., J. A. Hensley, treas., J. F. Hensley, mgt., Cap. stk. \$500,000. American, Challer and Veta, gold, silver and lead. Tunnels and shafts; refractory.
"	"	"	Anna C. Mining Co., Livingston, Mont., J. C. Savage, prest., J. C. A. J. seey. and treas., J. A. Nye, mgt. and supt., Cap. stk. \$1,000,000. Anna C., silver and lead. Tunnel, 2,000 tons; refractory, steam.
"	"	"	Armada Mining Co., J. H. Kane, prest., J. Peavy, seey., W. H. Barnes, treas., W. H. Bennett, mgt. and supt., Cap. stk. \$500,000. Armada, Smelter, Little and Sloper, silver and lead. Shafts, steam, developing.
"	"	"	Barbours & Miles, Silver Eagle, lead and silver. Shaft, horse, developing.
"	"	"	Barbours & Miles, Silver Eagle, lead and silver. Shaft, horse, developing.
"	"	"	California & Bendish Mining Co., J. F. Hensley, prest., N. L. Benson, seey., J. F. Hensley, treas. and mgt., Cap. stk. \$500,000. California, silver and lead. Shaft, 1,000 tons; refractory, steam. T. W. Stewart, supt.
"	"	"	Cumberland Mining and Smelting Co., Chas. F. Seydmore, prest., R. H. Minto, seey., Jas. L. Fraser, treas., A. J. Humeke, mgt. and supt., Cap. stk. \$500,000. Cumberland and others, silver and lead. Shafts, 15,000 tons; refractory, steam, smelter, stacks.
"	"	"	Granite Castle Mining Co., White Sulphur Springs, Mont., Lewis Roberts, prest., John Rees, seey., Cap. stk. \$200,000. Granite Castle No. 1, silver. Shaft, hand, developing.
"	"	"	Hensley Bros., Morning Star, lead of the Castle and Lamar, silver, copper and lead. Shafts and tunnels, refractory, steam, developing.
"	"	"	Lenox Mining Co., Livingston, Mont., W. D. Ellis, prest., treas. and mgt., Geo. A. Ellis, seey., Golden Eagle, gold, silver and lead. Shafts, horse.
"	"	"	Little Dot Mining Co., J. M. Kempe, prest., N. L. Benson, seey., Mrs. Oulie Donovan, treas., mgt. and supt., Cap. stk. \$200,000. Little Dot, lead and silver. Shaft, tree, steam, 12,000 tons.
"	"	"	Mary Anderson Mining Co., H. W. Rowden, prest., H. Bedford, seey., C. A. Weston, treas., W. A. Boots, mgt. and supt., Cap. stk. \$250,000. Mary Anderson, silver. Shaft, tree.
"	"	"	Elmer F. Phillips, gold, silver and copper. Shaft and tunnel, refractory, hand, developing.
"	"	"	Joe Reed, Missouri, gold and silver. Shaft, refractory, hand.
"	"	"	Solid Silver Mining Co., Melville, Mont., Mr. Barry, prest., P. A. Johnson, seey. and treas., Thos. Hughes, mgt. and supt., Cap. stk. \$750,000. Solid Silver, silver and lead. Shaft, refractory, horse.
"	"	"	Winged Crescent Mining Co., P. O. Box 9, Lee Simonsen, prest., S. T. Simonsen, seey. and treas., O. Howald, mgt., Cap. stk. \$200,000. Winged Crescent, gold, silver and lead. Shaft and tunnel, tree, smelting, horse.
"	"	"	Yellowstone Mining Co., Wm. Parberry, prest., J. F. Hensley, seey. and treas., R. W. Peters, mgt., Cap. stk. \$250,000. Yellowstone, silver and lead. Shaft, refractory, steam, blast furnace, 12,000 tons. N. J. Fredmarch, supt.
Cavendish	Beaver Head		Bon-Avenue Placer Mining Co., J. Stewart Walker, prest., F. L. Ball, seey. and treas., Matthew L. Comiskey, mgt. and supt., Cap. stk. \$200,000. Bon-Avenue, gold. Placer, water, elevators, developing.
"	"	"	Golden Leaf, Ltd., London, Eng., 21 Martha's Lane, E. C., J. S. W. J. prest., H. C. Richardson, seey. and treas., J. H. Bondman, mgt., Cap. stk. \$750,000. Golden Leaf, gold and silver. Tunnel, shaft and placer, 15,000 tons; tree, steam, 20 stamps. Thos. W. Adams, supt.
Champion	Deer Lodge		Champion Mining Co., Deer Lodge, Mont., N. J. Robinson, prest. and mgt., L. C. Crockett, seey., H. H. Zeno, treas., Cap. stk. \$100,000. Bull, Moxy, Antelope and Champion, silver. Shaft, 12,000 tons; tree, steam, 20 stamps. T. T. Sloughen, supt.
"	"	"	New Silver Crown Mining Co., Chicago, Ill., 806 LaSalle Bldg., T. G. Galtz, prest., J. C. Sherrill, seey., R. L. Kenyon, treas., Edwin Simonson, mgt. and supt., Cap. stk. \$200,000. New Silver Crown, silver. Shaft, tree and refractory, steam.
Chico	Park		John C. Caldwell, North Star, gold. Shaft, developing.
"	"	"	Wm. F. Gray, Back Pay Mines 1, 2 and 3, Butte and Gopher Mines, gold and silver. Tree, hand and horse, developing.
"	"	"	W. F. Hobbs, St. Julien, gold, silver and osmith. Tunnel, refractory.

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Chico		Park	Hudson & Blair, Granite, Mont., Cap. \$10,000. Morning Star, gold, silver and lead. Tunnel, 5 tons; free. S. R. Hudson, mgr. and supt.	
	(Continued.)			
"	"	"	Krippner, Hoopes & Stands, Cap. \$80,000. Old Faithful, Gertie G. No. 2, Lilly, Moonlight and Cora K., gold, silver and lead. Shaft and tunnels, 15 tons; refractory; hand. Jas. M. Krippner, supt.	
"	"	"	Montana Blomuth Mining & Milling Co., Helena, Mont., M. W. Johnson, pres.; J. W. Eddy, secy.; Thos. Goodwin, treas.; W. J. Holmes, mgr. and supt. Cap. stk. \$250,000. Queen Bee, Minnie and Tippecanoe, gold. Tunnels; refractory.	
"	"	"	Six Mile Placer Co., Livingston, Mont., Marchington & Dyer, props. Cap. \$10,000. Six Mile, gold. Placer; water.	
Chissey		Jefferson	Buckeye Gold & Silver Mining Co., Helena, Mont., A. J. M. Hosom, pres.; Olof W. Anderson, secy. and treas.; R. E. De Camp, V.-pres. Cap. stk. \$50,000. Government Bond, Chissey and Dan Tucker, gold and silver. Shafts and drifts, free. Steam developing.	
"		"	E. Redding, King Solomon, silver and lead. Shaft; refractory; horse.	
"		"	George Strabel, Cap. \$2,000. Blue Rock, silver and copper. Shaft and tunnel, 100 tons; free; horse.	
Clarke		Deer Lodge	Bi-Metallic Mining Co., St. Louis, Mo., 116 Laclede Bldg., M. Ramsey, pres. and treas., F. J. Casey, secy. Cap. stk. \$200,000. Bi-Metallic, silver. Shaft, 60,000 tons; refractory; steam. 100 stamps, 34 pans, 17 sifters, 5 roasters, 4 dryers. W. Thomas Hart, supt.	
Clinton		Missoula	Chlor Mining Co., R. J. Womys, pres. and treas.; W. A. Logue, secy., mgr. and supt. Cap. stk. \$500, 000. Chlor, silver. Shaft; refractory; steam.	
Combination		Deer Lodge	Combination Mining & Milling Co., St. Louis, Mo., 122 Laclede Bldg., C. D. McLane, pres.; J. B. Mellor, secy. A. Herbold, treas., F. W. Sherman, mgr. and supt. Cap. stk. \$300,000. Combination, silver. Shaft and slope, 24,000 tons; free. Steam, 20 stamps.	
Condit		Jefferson	Erickson & Orting, Helena, Mont., Independent, gold, silver and lead. Shaft, 100 tons; refractory, horse.	
Cooke		Park	Catherine Noble Mining Co., Minneapolis, Minn., 27 Nicollet av., C. P. Lase, pres.; C. P. Sutherland, secy.; Wm. Z. Mend, treas.; David Noble, mgr. Cap. stk. \$1,200,000. Solid Silver, Rich Strike, Tread- well, Lady Elgin, Arabian and Alaska Diamond, gold, silver and lead. Shaft, tunnel; refractory; hand developing. David Noble, supt.	
"		"	General Office Mining and Reduction Co., St. Paul, Minn., S. L. Moore, pres.; T. S. Woodruff, secy., C. A. Clark, treas.; David Noble, mgr. Cap. stk. \$2,000,000. Mountain View and 9 other mines, gold, silver and lead. Tunnels and shafts, refractory.	
"		"	Vimmedge Mining Co., Wm. J. Vimmedge, pres.; Mrs. Belle V. Drake, secy.; Alvin P. Vimmedge, mgr. Cap. stk. \$3,000,000. Silver King, Little Kid and 3 others. Tunnel developing.	
Doernfeld		Fergus	Bayless, Riser & Arnold, Anderson & Linton, gold, silver, lead, copper. Shaft and tunnel, 100 tons; free; hand.	
"		"	North Moenash Mining Co., Lewistown, Mont., J. L. Harmon, pres. and supt.; W. G. Norman, secy. and treas.; J. H. Norman, mgr. Cap. stk. \$200,000. Gold, silver and lead. Shaft and tunnel; refractory; horse developing.	
Deer Lodge		Deer Lodge	Emery Mining Co., N. J. Beidenberg, pres. and mgr.; H. H. Zenor, secy. and treas. Emery, gold and silver. Shaft, 3,000 tons; refractory; steam. A. C. Cabel, supt.	
"		"	Lion Mining Co., Jas. H. Mills, pres.; Geo. S. Miller, secy.; J. B. McMaster, treas.; Sam Taylor, mgr. and supt. Lion Mine, gold and silver. Shaft; free, steam.	
Dewey		Beaver Head	Jay Hawk & Lone Pine Consolidated Mining Co., Ltd., London, Eng., Dashwood House, Old Broad St. The Hon. Ponsonby, pres.; W. J. Lavington, secy.; Henry Trudeau, mgr. and supt. Cap. stk. \$2,425,000. Lone Pine, Jay Hawk, silver. Shafts and slopes, 15,000 tons; free, steam, 2 mills, 25 stamps.	
"		"	J. Benton Leggat, Argyle, silver. Shaft, free; steam and horse. James Gallogly, supt.	
Diamond City		Meagher	John M. Norris, Montana Regent and 2 others, gold. Tunnels and shafts, free, refractory.	
Dillon		Beaver Head	Polaris Mining & Milling Co., Helena, Mont., J. E. Kump, pres.; C. G. Currier, secy.; O. T. H. Allen, mgr. and supt. Cap. stk. \$50,000. Polaris Mine, silver. Shaft and tunnel, 2,000 tons; steam.	
Drummond		Deer Lodge	Berendes Mining Co., Butte City, Mont., John P. French, pres. and mgr.; G. H. Macdonnell, secy. Cap. stk. \$2,000,000. Berendes, silver and copper. Tunnel, free and refractory developing. A. H. Harth, supt.	
Duncan		Gallatin	Alt Johnson, Black Hawk, silver and lead. Slope, refractory; hand developing.	
"		"	M. E. Stricklen, Oro Grand and Jo Dandy. Shaft and tunnel, refractory.	
Eddy		Missoula	Black Bell & Quantrell Mining Co., D. O. Bogart, pres.; Frank Bogart, secy.; N. J. Myers, treas.; A. W. Moore, mgr. and supt. Cap. stk. \$250,000. Black Bell, Quantrell, Surprise and Fannie E., gold. Tun- nel, refractory; water developing.	
Elkhorn		Deer Lodge	Dunstone Mining Co., Helena, Mont., Chas. A. Clarke, pres.; John W. Eddy, secy.; Chas. W. Cannon, treas. Cap. stk. \$1,000,000. Dunstone Mine, gold, silver and lead. Slope, 200 tons; refractory; hand.	
"		"	Elkhorn Mining Co., Ltd., London, Eng., 6 Drapers' Gardens, E. C., A. G. Brand, pres.; Chas. Fekeman, secy.; John W. Plummer, mgr. Cap. stk. \$1,000,000. Elkhorn, silver and lead. Shaft, Slope, 15,000 tons; free and refractory; steam, 25 stamps. Chas. A. Nelson, supt.	
Elk Park		Jefferson	Larson, Talbot, Hyman & Mortimer, Butte, Mont., Silver King, gold and silver. Tunnel, 150 tons; refrac- tory.	
Elstern		Deer Lodge	William Dyer, Helena, Mont., Ontario, gold and silver. Tunnel and shaft, 3,000 tons; refractory, steam. Wm. Joly, supt.	

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF MINERAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN	AND	COUNTY.	
Elliston	Deer Lodge (Continued.)		Grand Republic Mining Co., Helena, Mont., 20 Pittsburg Block, J. C. Hallum, pres., Chas. A. Cook, secy. and treas., Cap. stk. \$5,000,000. Lilly and Mounier, gold and silver. Shafts and tunnels, 10,000 tons; steam.
"	"	"	Wall O'Keefe, Cap. \$75,000. Alma, Chan, Alpine, Jennie Hatfield, Abner Cooper, Jessie Wear and Walter Right Mines, gold and silver. Shafts and tunnels.
"	"	"	Richmond Mining Co., Miles City, Mont., C. B. Towens, pres., J. R. Collins, secy., H. R. Wiley, treas., Wm. O'Keefe, mgr. and supt., Cap. stk. \$1,000,000. Richmond, N. Elbe Blake and Eureka, gold and sil- ver. Tunnel, free and refractory, hand (developing).
"	"	"	Wall Street Mining Co., Helena, Mont., Hiram E. Birtch, pres. and treas.; John W. Liddy, secy., Cap. stk. \$1,000,000. Mary Ann, Kamee and Rising Sun, gold and silver. Tunnel, refractory, hand (developing).
Empire, Lewis and Clarke Ry., Marysville 529.			Golden Lead Co., Ltd., London, E. C., Eng., 20 Martin's lane, J. Stewart Wallace, pres., J. Ball, secy. and treas., J. Henry Longmaid, mgr., Cap. \$75,000,000. Lumping, Smithville, Whip poor-will, Bell Ray and Glasgow, gold. Shafts and tunnels, 5,000 tons; free, steam, 60 stamp mill. Henry Northey, supt.
Farley Ry. 776.	Silver Bow		Kirley Bros. & Goodwin, Goodwin and Sage, Ben, gold and silver. Shaft and tunnel, free, horse and hand (developing).
Fin Ry. 529.	Jefferson		Beattie, Harris & Toole, Helena, Mont., Merchants' National Bank Bldg., Room 2. Ida, gold, silver and lead. Shaft, 1,200 tons; refractory, hot air. Miles City, Montana, supt.
Flint (P. O. Deer Lodge City) Ry. 527 (12 miles.)	Deer Lodge		Volcano Gold Mining Co., A. H. Mitchell, pres., J. Lewis, secy., Walter Bennett, treas., Cap. stk. \$1,500,000. Volcano and Gold Lead, gold and silver. Tunnel and shaft, free, steam (developing).
Florence Ry. 529.	Missoula		Bitter Root canal & Mining Co., Bitter, Mont., 18 Main st., R. C. W. Evans, pres. and treas., Ben F. Orent, secy., Geo. H. Babcock, mgr., Cap. stk. \$1,000,000. G. G. Elbow, water.
Forest City Ry. Iron Mountain 529.	Missoula		California Mining Co., California, gold. Elbow, R. W. Martin, supt.
Frenchburg, Lewis & Clarke (P. O. Canyon Ferry) Ry. Helena 293, 529 (14 miles.)			Joel Finkes, Frenchburg, silver. Shafts and tunnels, 5,000 tons; refractory, hand.
"	"	"	Missoula Gold & Sulphate Co., Missoula, Mont., J. H. L. East, pres., J. L. L. East, secy., Geo. H. Clynick, secy. and treas., J. D. Farrow, mgr., Cap. stk. \$1,000,000. Missoula, gold, sulphate. Plant (de- veloping).
Galen Ry. Great Falls 293, 293.	Meagher		Dry Wolf Mining Co., Great Falls, Mont., Stephen Pierce, mgr., Gold Dust, silver and lead. Shaft and tunnel, free, hand.
"	"	"	Mine & Graham, Cap. \$200,000. Patched, J. V. Bird and George, gold, silver and lead. Tunnel, 600 tons; free, hand. J. F. Moore, supt.
Gardiner Ry. Chamberlain 529 (12 m.)	Park		Crescent Mountain Mining Co., Helena, Mont., P. F. Ray, pres., Eugene Underwood, secy., J. D. Edgerton, treas., W. J. Jewell, mgr., Cap. stk. \$500,000. Crescent Mountain, gold. Shafts, tunnels and slopes, 10,000 tons; free, steam, 20 stamp mill. J. Daniel, supt.
"	"	"	John L. Knowles, Gold. Placer, hand.
"	"	"	W. J. Malin & Co., St. Louis, Mo., 500 Washington av., Tower Grove and Pratt, gold and silver. Tunnel and shaft, free and refractory. W. J. Malin, supt.
Glendale Ry. Melrose 756 (20 m.)	Beaver Head		G. R. Conway, Peelo, gold. Slope and tunnel, free, water (developing).
"	"	"	Hecla Consolidated Mining Co., Indianapolis, Ind., W. J. White, R. C. John Thomas, pres., J. C. Mc- Clellan, secy., J. C. Wright, treas., H. Kuppenberg, mgr., Cap. stk. \$1,500,000. Eleven Mines, 2,000 tons and lead. Slope, 15,000 tons; refractory. Steam and water. Water jacket furnaces. Samuel A. Bar- bour, supt.
"	"	"	Ferry Bros., Park View, silver and lead. Tunnel, 1,000 tons; refractory, hand. David Ferry, supt.
Granite Ry. Phillipsburg 529.	Deer Lodge		Granite Mountain Mining Co., St. Louis, Mo., 500 Washington av., J. M. Ramsey, pres., Theo. O. Hyman, secy., Park & Lutz, treas., J. P. Clark, mgr. and supt., 10,000 tons and lead. Slope, 15,000 tons; refractory and free building, stamp, 100 stamps. Theo. West, gen. supt. Wayne Ziegler, asst. supt.
Grantsville Ry. 529.	Missoula		Albert W. Bradford, Martha Glendenning, gold and silver. Open pit, refractory, hand (developing).
Great Falls Ry. 293, 293.	Cascade		Blue Deck & Cascade Gold and Silver Mining Co., P. H. Hennessey, pres. and mgr., G. W. White, secy. and treas., Cap. stk. \$2,000,000. Blue Deck and Manitowish, silver and lead. Tunnel, 200 tons. J. A. C. O'Brien, supt.
"	"	"	Helena & Lima Mining Co., P. O. Box 500, Douglas Mott, pres., G. O. F. Bluff, secy., James L. Wright, treas., Cap. stk. \$1,000,000. Helena and Lima, 2,000 tons; free and refractory. P. C. O'Brien, supt.
"	"	"	Oliver Lusher Mining Co., P. O. Box 67, S. P. Baymen, pres., W. L. Hastings, secy. and treas., Oscar Olmeyer, mgr. and supt., Cap. stk. \$100,000. Oliver Lusher, 2,000 tons; free, hand and tunnel. Tunnel, hand (developing).
Hackney Spur Silver Bow not in P. O. Ry. 40 (11 miles.)			Goldstist, English & Fish, Anaconda, Mont., Levi P. Matton, 2,000 tons; silver and lead. Shaft, free, hand (developing). Walter R. Fish, supt.
Helena, Lewis and Clarke Ry. 293, 529.			Good Luck Mining Co., P. O. Box 775, Good Luck, S. V. O'Brien, pres., John W. Liddy, secy. and mgr., Albert S. Harvey, treas., Cap. stk. \$1,000,000. Good Luck, lead and silver. Shafts, 100 tons; free, hand. J. A. O'Brien, J. H. K. Harvey, supt.
"	"	"	Meteor Mining Co., A. J. Seligman, pres., John W. Liddy, secy., A. M. Holt, treas., Cap. stk. \$1,000,000. Meteor and Star of the West, 2,000 tons; free and lead. Tunnel, refractory, hand (developing).
"	"	"	St. Helena Consolidated Gold & Silver Mining Co., Main st., John N. O'Brien, pres. and mgr., J. W. Wright, secy. and treas., E. G. Wood, mgr., P. H. Kiepus, mgr. and supt., Cap. stk. \$1,000,000. St. Helena, Alpine Crest, Yorktown, C. W. and lead and limestone, 2,000 tons; free and lead. Shaft, free and refractory, hand (developing).

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Helena	Lewis and Clarke		Supphire & Ruby Co. of Montana, Ltd., London, Eng.	Placer, gold and gems. Capt. Wood, supt.
"	(Continued.)			
"	"		Whitlatch Union & McIntyre Gold Mining Co., Journal Bldg.	W. G. Bailey, pres.; G. E. Boos, secy.; W. H. Clark, treas.; Michael Cooney, mgr. and supt. Cap. stk. \$800,000. Whitlatch Union and McIntyre, gold. Shaft, 15,000 tons; free, steam; Huntington mill.
Helmsville	Deer Lodge		American Silver, Copper & Refining Co., Chas. Cooper, pres. and mgr.; Jas. E. Marcom, secy.; Adrian	Pritchard, treas. Cap. stk. \$10,000. Chance, silver and copper. Shaft, refractory.
"	Ry. Avon 529.45 mi.		Best Bros., Northern View and 2 others, gold and silver.	Slope, open pit, placer, 500 tons; refractory; steam; 5 stamps. Geo. W. Best, supt.
"	"		Delamater & Odolone, Cap. stk. \$3,000, indy. cap. \$1,500. Hobby Horse, Lost Carbon and Delamater,	gold, silver and copper. Shafts and slope; free and refractory; hand developing.
Heron	Missoula		Jules Norbier, Cabinet King, silver and lead.	Tunnel (developing).
"	Ry. 529.43 miles.			
Hughesville	Meagher		Paris Gibson, Great Falls, Mont., First National Bank, Barker Mine, silver and lead.	Shaft, 1,500
"	Ry. Barker 230.41 mi.			tons, refractory, steam. Wm. C. Stanley, supt.
"	"		Loretta Gold & Silver Mining Co., Milwaukee, Wis., 462 Broadway.	John M. Connolly, pres.; Chas. R.
"	"		Groth, secy.; James Foley, treas.; M. J. Dunn, mgr. and supt.	Cap. stk. \$500,000. Tiger Mine, gold, silver and lead. Tunnel, 5,000 tons, hand.
"	"		Van Arsdale & Carpenter, Emerald, gold, silver and lead.	Tunnels; refractory.
Independence	Park		Independence Mining Co., H. E. Leveaux, pres. and mgr.; Jas. H. Hoyt, secy.; Jas. Pickands, treas.	
"	Ry. Big Timber 529		Cap. stk. \$500,000. Independence, gold and silver. Shaft and tunnels, free, steam; mill. John	Anderson, supt.
"	(10 miles).			
Jay Gould, Lewis & Clarke			Jay Gould Mining Co., Helena, Mont.	John T. Murphy, pres.; R. O. Allen, secy.; Jos. P. Woolham,
"	P. O. and Ry. Silver		treas.; M. E. Davis, mgr. and supt.	Cap. stk. \$2,000,000. Jay Gould, gold. Tunnel, 10,800 tons; free; steam; mill; to stamps.
Kah-pell	Missoula		South Fork Mining & Milling Co., Chas. Burton, pres.; Henry W. Hendeman, secy. and treas.; P. Y.	Smith, mgr. and supt. Cap. stk. \$100,000. Home-stake and Silver King, silver and copper. Tunnel; refractory and free; water developing.
"	Ry. 233.			
Lewistown	Fergus		North Mevcasin Mining Co., J. L. Harmon, pres.; W. G. Norman, secy. and treas.	Cap. stk. \$300,000.
"	Ry. Billings 529.		J. T. Mine, gold, silver, lead and copper. Tunnel and shaft, deep; free; hand developing.	J. H. Norman, supt.
Libby	Missoula		Ohio Mining Co., McAuley, Idaho, Thos. T. Cosgriff, pres.; Gurley Jones, secy.; Daniel Cosgriff,	
"	Ry. Kootenai, Idaho,		treas.; Jas. P. Ewing, mgr. Cap. stk. \$100,000. Uncle Sam and Companion, silver and lead. Tunnel,	
"	529.18 miles.		6,000 tons; refractory, steam and hand. John Cosgriff, supt.	
"	"		Snow Shoe Mining Co., H. G. Longee, pres.; B. Parmenter, secy.; A. F. Dunlap, treas.; J. G. Abbott,	
"	"		mgr. Snow Shoe, gold, silver and lead. Tunnel; refractory; hand developing.	
Lima	Beaver Head		Red Rock Sand Stone Quarry & Mining Co., Edwin M. Jacobs, pres.; L. C. Ford, secy.; Lawrence Sell-	
"	Ry. 175.		strom, treas. Cap. stk. \$300,000. Red Star, silver and red sandstone. Open pit.	
Livingston	Park		Mill Creek & Emergent Mining & Smelting Co., Geo. T. Chambers, pres. and mgr.; H. J. Miller, secy.	
"	Ry. 529.43 miles.		and treas. Cap. stk. \$500,000. Wisconsin, Vinnie M., Sadie C. and Gertie G., silver. Tunnel, refrac-	
"	"		tory. W. P. Mithell, supt.	
Logging Creek	Meagher		Printers' Mining Co., Great Falls, Mont.	S. J. Kinsey, pres. and mgr.; O. H. Perry, secy.; J. M. Patten,
"	Ry. 231 P. O. Morris,			treas. Capital stk. \$500,000. Columbus, silver and lead. Tunnel; free, hand.
Lo Lo	Missoula		Lo Lo Licknam Mining Co., L. M. Davis, pres. and treas.; Phasant Davis, secy. and mgr.	Cap. \$800,000.
"	Ry. 529.45 miles.		Lo Lo Licknam, gold, silver, copper and lead. Tunnel, 50,000 tons; water.	
McKeen	Missoula		Cliff Mining Co., Wm. McKim, pres., mgr. and supt.	S. F. Hodgson, secy. and treas. Cap. stk. \$1,000,000.
"	P. O. Missoula Ry. 529.			Cliff, silver and lead. Shaft and tunnel; refractory, water.
Maiden	Fergus		Anderson & Rhodes, Northern Pacific and Iron Clad, silver, lead.	Shaft and tunnel, refractory, hand
"	Ry. Big Sandy 293.090		(developing).	
"	(10 miles).			
"	"		Newton Cowan, Nellie Bly, gold. Tunnel; free, horse and hand.	
"	"		S. Hanson, Voltaire, gold. Tunnel and shaft, free, steam.	
"	"		Harman & Norman, Lewistown, Mont.	New Year, gold and silver. Shaft, free milling; hand develop-
"	"			ing. A. D. Harman, supt.
"	"		Thos. A. Kerr, Silver Chain, silver. Shaft and tunnel, 10 tons; free; hand.	
"	"		F. L. Kinsley, Evening Star, gold, silver, lead and copper. Shaft and slope, refractory, hand (develop-	
"	"		ing).	
"	"		R. B. Matthews, Yankee Girl, gold, silver, lead and iron. Shaft; refractory, hand; to stamps.	
"	"		William Maurer, Black Hawk, gold, silver, copper and iron. Tunnel, refractory.	
Martha	Missoula		Last Chance Mining Co., Robert Gay, pres., mgr. and supt.; Theo. Behard, secy.; John North, treas.	
"	Ry. Frenchtown 529		(Last Chance, silver and lead. Tunnel developing).	
"	(25 miles).			
"	"		D. M. Power, Barrett, gold. Tunnel, free (developing).	
Marshallville	Lewis & Clarke		Big Ox Mining Co., Helena, Mont., 21 and 22 Pittsburg Block.	Carry Emerson, pres.; A. P. Dodge, secy.,
"	Ry. 529		treas. and mgr. Cap. stk. \$100,000. Big Ox, gold, silver and lead. Tunnel and slope, refractory,	
"	"		steam, 10 stamps developing.	
"	"		General Grant Mining Co., Helena, Mont.	Henry Juergens, pres. and supt., Frank Reese, secy. and
"	"		treas.; John Rumping, mgr. General Grant and Earthquake, gold, silver, copper and lead. Shaft	
"	"		and tunnel, refractory developing.	
"	"		Marysby Mining Co., Helena, Mont., 26 Power Building.	Chas. A. Clarke, pres.; John W. Eddy, secy.
"	"		and treas. Cap. stk. \$1,000,000. Jeanette, Redemption and Mexican Lady, gold and silver. Shaft and	
"	"		tunnel developing.	

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY	
Marysville, Lewis & Clarke (Continued.)	Montana Co. Ltd., London, Eng., 42-47 Gresham House, Old Broad st., E. C. 1. Stewart Pixley, chairman, Thomas Neill, secy.; Geo. H. Robinson, mgt., Cap. stks. \$1,000,000. Drum Tunnel, gold and silver. Tunnel and shaft, 5,000 tons; refractory, steam, 2 mills, 10 stamps. Jas. H. Henley, supt.
" "	St. Louis Mining & Milling Co., St. Louis, Mo., Room 412 Temple Bldg., Chas. I. Remme, pres't., Henry E. Rathjens, secy. and treas., Wm. May, mgt., Cap. stks. \$5,000,000. St. Louis, gold and silver. Shaft and tunnel, free, steam, Chas. F. Mayer, supt.
Meadow Creek, Madison Ry., Norris 529.	James McAllister, Grand Central, gold. Tunnel; refractory and free, hand.
Melrose, Silver Bow Ry., 776.	McKenz & Morgan, Cap. stks. \$14,000. Volta, gold. Shafts, free, hand.
" "	Panda Mining & Milling Co., Butte, Mont., Room 4 Silver Box Bldg., C. H. Hand, pres't. and mgt., J. F. Chapin, v. pres't., Frank P. Gable, secy., Andrew J. Davis, treas., Cap. stks. \$800,000. Panda, gold and silver. Shaft and levels, free, steam, 5 stamps, J. G. Mettrich, supt.
" "	Henry C. Stebbins, Mand S. and Belcher, gold, silver and lead. Slope and tunnel, refractory and free, horse.
Missoula, Missoula Ry., 529.	Gorrie Mining Co., E. M. Tower, pres't., Richard Marston, secy., J. M. Keith, treas., Cap. stks. \$500,000. Gorrie, silver.
" "	Granite Consolidated Mining Co., John F. Anderson, pres't. and supt., Geo. F. Brooks, secy., treas. and mgt., Cap. stks. \$800,000. Gold, silver and copper. Shaft and tunnel, free, horse, developing.
" "	Landowner Mining Co., W. J. Stevens, pres't., Leo Werner, secy. and treas., Cap. stks. \$100,000. Landowner, gold. Free, steam, 5 stamps, developing.
" "	Little Anaconda Mining Co., E. M. Tower, pres't. and mgt., J. M. Keith, secy. and treas., Cap. stks. \$1,000,000. Little Anaconda, silver and lead. Shafts and tunnels, 5000 tons, refractory, steam, O. Jellness, supt.
" "	Missoula Gold & Sapphire Co., Helena, Mont., J. H. B. Foster, pres't., J. H. Chum, secy. and treas., F. D. Farrow, mgt., Cap. stks. \$25,000. Gold and sapphires, Flaccr.
" "	Old Sierra Mining Co., W. J. Schilling, pres't., W. J. Stephens, secy. and treas., Cap. stks. \$100,000. Old Sierra, gold. Free, hand.
" "	San Martina Mining Co., Thos. C. Mar, mgt., pres't., D. D. Bogart, secy., W. B. Parsons, treas., Cap. stks. \$500,000. San Martina, gold. Free, steam, 10 stamps, developing. John Schuchel, supt.
" "	Silver Cable Mining Co., Wm. Cookman, pres't. and supt., J. J. Hertz, secy., C. A. Wolf, treas., Cap. stks. \$2,000,000. Silver Cable and Lost Cabin, silver and lead. Refractory, developing.
Montana City, Jefferson P. O. Marysville, Ry. 295, 529.	Destrope, Dubois & Smith, P. O. Box 15, Cap. stks. \$200. Blue Jay, gold and silver. Shaft and tunnel, 500 tons, free, hand.
Nehalem, Meagher Ry., 29.	Continental Mining Co., Great Falls, Mont., Hon. Fats Gibson, pres't., John F. MacKay, secy. and treas., P. H. Donovan, mgt., Cap. stks. \$1,000,000. Horton mine, gold and silver. Shafts, developing. P. H. Donovan, supt.
" "	Diamond E. Mining Co., Great Falls, Mont., Edgar I. MacKay, pres't., John F. MacKay, secy. and treas., Robert M. Raymond, mgt., Cap. stks. \$1,000,000. Monitor and South Carbon No. 2, silver. Shafts, 5000 tons, free and refractory, steam. R. B. Raymond, supt.
" "	Florence Mining Co., White Sulphur Springs, Mont., E. G. Wright, pres't., A. M. Henry, secy. and treas., Geo. L. Johnson, mgt. and supt., Cap. stks. \$750,000. Florence, silver and lead. Tunnels and shafts, 500 tons, refractory, steam.
" "	Hornet Mining Co., Homer Thomas, pres't., Henry Powell, secy. and treas., F. Fisher, mgt., Cap. stks. \$500,000. Hornet, gold, silver and lead. Shaft, hand.
" "	Ingersoll Mining Co., Great Falls, Mont., Allen Pierso, pres't., George Rudge, secy. and treas., Stephen Pierso, mgt. and supt., Cap. stks. \$200,000. Ingersoll, Vanhorn and others, gold, silver and lead. Tunnel, refractory, steam.
" "	Keystone Mining Co., J. L. Adams, pres't., L. B. Noss, secy. and treas., Cap. stks. \$300,000. Keystone, Independence and Monumental, gold, silver and lead. Shafts and tunnels, refractory, hand. F. Fisher, supt.
" "	Montana Gold, Silver, Platinum & Tellurium Mining Co., White Sulphur Springs, Mont., John C. Barker, pres't., J. J. Anderson, secy. and treas., David L. Barker, mgt. and supt., Cap. stks. \$1,500,000. Benton, gold, silver and platinum. Tunnel, 600 tons, free, hand.
" "	Queen of the Hills Mining Co., C. P. Downing, pres't., C. F. Parker, secy. and mgt., C. L. Conrad, treas., Cap. stks. \$200,000. Homestake, Queen of the Hills and O'Brien, gold, silver, lead and copper. Shaft and tunnels, refractory, electricity. Reno, mgt., supt.
" "	Savage Mining Co., Great Falls, Mont., Room 10 Cory Bldg., W. J. Hanks, pres't., W. H. Rao, secy. and treas., F. P. Atkinson, mgt., Cap. stks. \$500,000. Savage, silver and lead. Shaft, refractory, horse. F. P. Atkinson, supt.
" "	Silver Horn Mining Co., Allen Pierso, pres't., Richard Bennett, secy., F. F. Hoar, treas., Thos. Rich, mgt., mgt. and supt., Cap. stks. \$100,000. Hawk Eye, Hatchet and Hatchet No. 2, gold and silver. Tunnel, free, hand, developing.
" "	Star Mining & Milling Co., Great Falls, Mont., Jas. A. Carver, pres't. and mgt., H. W. Sheerman, secy. and treas., Cap. stks. \$1,000,000. Evening Star and Morning Star, silver and lead. Shaft, refractory, hand, developing.
" "	Sunmont Mining & Milling Co., Geo. W. Brown, pres't., Isaac May, v. pres't., Jas. S. Gordon, secy. and mgt., A. G. White, treas., Cap. stks. \$500,000. Silver and lead. Shaft, free, horse. Hugh I. White, supt.
" "	Union Mining Co., F. W. Tombs, pres't., W. W. Halls, secy., A. Anderson, treas., mgt. and supt., Cap. stks. \$100,000. White Star and Blue Bell, silver. Tunnel, free, hand.
Fowler, Missoula Ry., Iron Mountain 529 6 miles	Thomas Butler & May Day, Surpous and Butler, silver and lead. Tunnel, 2,000 tons, refractory. Land.

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINTS, TOWNS AND COUNTY	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAME OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
Phillipsburg Deer Lodge Ry. 529.	Bland Mining & Tunnel Co., Wm. Noble, prest., Josiah Shull, secy., Newt. Vaughn, treas.; H. L. Scott, mgr., Cap. stk. \$12,000, R. P. Bland and Pontine, gold and silver, Free (developing).
" "	Combination Mining & Milling Co., Butte, Mont., C. D. McLure, prest.; J. B. Harper, secy.; A. Hurlsheld, treas.; E. W. Sherman, mgr., Cap. stk. \$800,000, Combination, silver, Shaft, 20,000 tons; free; steam; 20-stamps.
" "	Hope Mining Co. of St. Louis, St. Louis, Mo., Room 130 Laclede Bldg., John C. Porter, prest., Chas. A. Cimo, secy., G. A. W. Ang. d. treas.; N. B. Rauschling, mgr. and supt., Cap. stk. \$1,000,000, Hope, silver, shafts and tunnel, 5,000 tons; free; steam, 10-stamps.
" "	Puritan Mining & Milling Co., John McKeehey, pres. d. and mgr.; John McKeehey jr., secy. and treas., Cap. stk. \$1,200,000, Puritan, silver, Shaft, 10,000 tons; free; steam; John Heil, supt.
Placer Jefferson Ry. 529 (4 miles).	Chisholm & Chisholm, Little Bonanza and Red Rock, silver and lead, Shaft and tunnels, 400 tons; refractory; steam, J. F. Hardy, supt.
" "	Custer Mining Syndicate, St. Louis, Mo., Room 133 Laclede Bldg., Charles Clark, mgr., Cap. \$75,000, Custer, gold and silver, Shaft and tunnel, 4,000 tons; refractory; steam, O. H. Tibbetts, supt.
" "	Jumbo Copper Mining Co., Helena, Mont., 24 Edwards st., F. J. Thomas, prest., mgr. and supt.; Chas. R. Sutton, secy., L. W. Heath, treas., Cap. stk. \$500,000, Jumbo, Pine Tree and Pioneer, silver and copper, shaft and tunnel, refractory, steam.
" "	Winston & Kendrick, Minneapolis, Minn., Room 2 Union Depot, Cap. stk. \$500,000, East Pacific, gold, silver and lead, Tunnel, 2,000 tons; refractory, hand.
Pony Madison Ry. 529 (4 miles).	W. S. Duncan, Glen Addie, gold, Shaft, 15 tons; refractory; horse.
" "	Duncan & Haffolun, Banker, Southern Gil, Stephanie and 6 other claims, silver, shafts and tunnels, free, hand.
" "	Garnet Gold Mining Co., St. Louis, Mo., 226 Walnut st., F. C. Wood, prest.; J. M. Dunly, secy.; Geo. A. Zeller, treas., C. H. Wood, mgr., Cap. stk. \$250,000, Garnet Group, gold, shafts and tunnels, 500 tons; refractory, steam, John Haffolun, supt.
" "	W. C. McKaskle, Belle, gold, Tunnel, 300 tons; free and refractory, water, 20-stamps.
" (15 miles),	Stock & Allen, Ticonderoga, silver, Tunnel, refractory.
" "	Frank Walters, Sarah Bernhart and Buffalo Bill, gold, silver and copper, Shaft and tunnel, 500 tons; refractory, water; 20-stamps.
Princeton Deer Lodge Ry. 1700 529.	Royal Gold & Silver Mining Co., Deer Lodge, Mont., Willard Bennett, prest., Lew Coleman, secy. and treas., W. W. Turney, mgr. and supt., Cap. stk. \$1,500,000, Royal, gold and silver, Tunnel and shaft, 12,000 tons; free; steam, 10-stamps.
" "	Volcano Gold & Silver Mining Co., A. N. Mitchell, prest., Lew Coleman, secy., W. Bennett, treas., Cap. stk. \$1,500,000, Volcano, gold, Tunnel, free; steam, W. W. Turney, supt.
Quartz Mt. south Ry. 529.	Landowner Consolidated Mining Co., Missoula, Mont., 15 W. Main st., W. J. Stephens, prest., L. J. Warner, secy. and treas., Robert Childs, mgr. and supt., Cap. stk. \$2,000,000, Landowner and Sunday, gold, Tunnel, 5,000 tons; free; steam and water; 10-stamps.
Radersburg Jefferson Ry. 10-st. 529 (10 miles).	John A. Keating, Cap. \$100,000, Keating, Ohio and Levathan, gold and silver, shafts and tunnels, refractory, steam, 10-stamps (developing).
" "	John M. Ralls, Mountain Glen, gold, silver and lead, Shaft, free (developing).
Red Bluff Madison Ry. 529 (10 miles).	Riverside Mining & Milling Co., Minneapolis, Minn., Corn Exchange, D. F. Morgan, prest. and mgr., S. B. Loxney, secy. and treas., Cap. stk. \$500,000, Riverside, Katie and Hayward, gold, silver and lead, Tunnels, refractory, hand (developing), Thomas M. Park, supt.
Revenue Madison Poland Ry. 529 (5 miles).	Plutus Mining & Milling Co., Bozeman, Mont., Room 5 Hotel Block, Archie G. Macdonald, prest.; F. B. Turner, secy. and treas., Angus McMaster, mgr., Cap. stk. \$1,000,000, Highland, East Highland, Gold Butte and 7 other mines, gold and silver, shaft and tunnel, refractory, steam, Donald McDonald, supt.
" "	Revenue Consolidated Gold Mining Co., O. S. Sander, M. D. prest., H. L. White, secy., Geo. H. Bart, treas., R. B. Turner, mgr., Cap. stk. \$2,000,000, Revenue and Income, gold and silver, Shaft and slope, 6,000 tons; refractory, steam, 20-stamps, F. B. Turner, supt.
Rhine Lewis and Clarke Ry. 529.	Frederick A. Randall, Cap. \$10,000, Mont-zuma, gold, silver and lead, Shaft, refractory, horse.
" "	Buffalo Mining Co., Helena, Mont., John F. Mulgren, prest.; James Cavenaugh, secy., Bernard Mulgren, treas. and mgr., Cap. stk. \$500,000, Buffalo, Mulgren, Alice, Cavenaugh, Adam, Julia and Augusta, gold, silver and lead, Tunnel, 5,000 tons; refractory, hand, A. W. Foller, supt.
" "	J. H. Conley, Nettie, gold and silver, Shaft, hand (developing).
" "	A. F. Davis, Cap. \$5,000, Silver Reef, Virginia Belle, Mountain View, Jennette, A. F. Davis, Tiger, Mother and Ida Glenn, gold, silver and lead, Tunnels, refractory, steam (developing).
" "	Dividend Mining Co., Helena, Mont., Sixth and Main st., W. E. Cox, prest., John W. Fady, secy. and treas., Geo. R. Parker, mgr. and supt., Cap. stk. \$1,000,000, Katie Putnam, silver and lead, Tunnel, refractory.
" "	Estella Mining Co., John Heil, prest., J. J. Hennessy, secy., Frank Heil, treas., D. Heil, mgr., Cap. stk. \$500,000, Estella, gold and silver, Shaft and tunnels, 25,000 tons; refractory, horse and water, M. O'Brien, supt.
" "	Golden Gate Mining Co., John Heil, prest., J. J. Hennessy, treas., M. O'Brien, mgr., Cap. stk. \$200,000, Golden Gate, gold, silver and lead, Shaft and tunnel, 5,000 tons; refractory, horse and hand, Geo. Vannoy, supt.
" "	Harrison & Co., Helena, Mont., Eureka, gold and silver, Shaft, 30,000 tons; steam, W. Conn, supt.
" "	Wm. H. Hartman, Blue Fox and Medicine Cent's mine, gold, silver and lead, Tunnels, 2,500 tons; free, hand.

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY	
Rimmi (Continued)	Hed Bros., Minkato, Mont., 511 Frank st., Frank Hed, prest., John Hed, mgr., Cap. stks. \$250,000, Golden lead, gold, silver and lead, Shaft, 2,000 tons, refractory, horse and hand, Joseph Stahl, supt.
" "	Hels Mining Co., John Hed, prest. and supt., J. J. Hennessy, evy., Frank Hed, treas., Danneke Hed, mgr., Cap. stks. \$50,000, Peerless Kate, gold and silver, Shafts and tunnel, 2,500 tons, refractory, horse.
" "	Helena & Rimini Mining Co., Helena, Mont., R. S. Hale, prest., W. E. Froeloch, secy. and treas., Wm. Coyle, mgr., Cap. stks. \$100,000, Lureka, silver, lead and iron, Tunnel and shaft, 2,000 tons, refractory, steam.
" "	J. J. Hennessy & Co., Gold Coin, gold, silver and lead, Shaft, 50 tons, refractory and tree, horse, J. J. Hennessy, supt.
" "	Jackson & Gill, Cap. \$5,000, Black Warrior and Key stone, gold, silver and lead, Shaft, 500 tons, tree, hand and horse, Wm. Jackson, supt.
" "	David Kirby, Walkerville, Mont., Cap. \$5,000, Monte Christo and Savannah, gold and silver, Tunnel and shaft, 30 tons, refractory, hand.
" "	Lehman & Dornblut, Helena, Mont., S. Math st., Telegraph and Alexandria, gold, silver and lead, Placer and tunnel, refractory, steam and hand, 5 stamps, developing.
" "	Mammoth Mining Co., Mammoth, Mont., 100 E. Third av., J. J. Hennessy, prest., S. J. Farham, secy. and supt., Geo. Sumner, treas., S. H. McDonald, mgr., Cap. stks. \$50,000, Mammoth, gold, silver and lead, Tunnel, 5,000 tons, refractory, horse and hand.
" "	Mammoth Day, J. Peter Davis, mgr., Mott, gold, silver and iron, Slope, refractory, horse.
" "	Peerless Jennie Mining Co., Helena, Mont., Room 2 Merchants National Bank Bldg., T. W. Beattie, prest. and mgr., H. R. Conley, secy., W. C. Childs, treas., Cap. stks. \$25,000, Peerless Jennie, gold, silver, lead and copper, Shafts and tunnels, refractory, steam, developing.
" "	Queen City Mining & Developing Co., Helena, Mont., John S. Mc Coy, prest., W. L. Cummins, secy., W. F. Whitaker, treas., Cap. stks. \$200,000, Gold, silver, lead and copper, Tunnel, developing.
" "	Queen of the West Mining & Mfg. Co., Helena, Mont., 600 E. Third av., J. J. Mc Coy, prest., John Shaw, secy. and mgr., J. D. Lindsay, treas., Cap. stks. \$100,000, Queen of the West, gold, silver and lead, Shafts and tunnels, refractory, horse.
" "	Thomas Davis, Montana, gold, silver and copper, Shaft, 100 tons, refractory.
Robinson Ry., Townsend	Bonanza Mining Co., White Sulphur Springs, Mont., John Ramsey, prest., Abe Gibson, secy., John O. Mott, treas., R. B. Etnyre, mgr., and supt., Cap. stks. \$250,000, Bonanza, gold, silver and lead, Shaft, refractory, hand, developing.
" "	Cassidix Mining Co., Billings, Mont., G. Barth, prest., T. H. Fowler, secy., A. J. Sexton, treas., Volcanic, iron, mgr. and supt., Cap. stks. \$50,000, Cheopitons, silver and copper, Shaft, tree, horse.
" "	Gold Sisters Mining Co., Ivan L. Brown, prest. and mgr., Morgan H. Brown, secy. and treas., Cap. stks. \$250,000, Gold Sisters, silver and lead, Slope, tree, horse.
" "	Hk. Mining Co., White Sulphur Springs, Mont., John F. Mc Coy, prest., John O. Mott, secy., John O. Mott, treas., J. M. Murphy, mgr., Cap. stks. \$50,000, Hk. Mining, silver, Shaft, 100 tons, hand, developing.
" "	Helen Foxcroft Mining Co., White Sulphur Springs, Mont., T. H. Etnyre, prest., A. M. Henry, secy., Treas. and supt., Cap. stks. \$25,000, Helen Foxcroft, silver and lead, Shaft and levels, refractory, horse, developing.
" "	Iron Chert Mining Co., Henry Kett, prest., Andrew W. Kett, secy., John F. Kett, treas., H. Kett, mgr., Iron Chert, silver, copper and lead, Slope, tree, horse.
" "	Judge Mining Co., Wm. P. Kett, prest., T. J. Anderson, secy. and treas., J. A. Wood, treas., Cap. stks. \$50,000, Judge, silver and lead, Shaft, 100 tons, hand, developing.
" "	Maxwell Mining Co., White Sulphur Springs, Mont., Wm. L. Fox, prest., J. F. Calloway, secy., S. M. Applebaugh, treas., H. H. Etnyre, mgr. and supt., Cap. stks. \$50,000, Maxwell, silver and lead, Shaft, refractory, hand, developing.
" "	T. A. Powderly Mining Co., Helena, Mont., John A. Powell, prest., T. A. Powderly, secy. and treas., N. Higgins, mgr. and supt., Cap. stks. \$50,000, T. A. Powderly and Co., Blaine, silver and gold, Shafts and tunnel, tree, hand.
" "	Roland Mining Co., Michael Conner, prest., C. A. Bonney, secy. and treas., John M. Murphy, mgr., Cap. stks. \$50,000, Roland and Pressure, Placerville, silver, Shaft and tunnel, horse, developing.
" "	St. Genevieve Mining Co., Henry Kett, prest., John F. Kett, secy., Chas. H. Kett, treas., T. P. S. Dunn, mgr. and supt., Cap. stks. \$25,000, Topknot, silver and copper, Shafts, timber, tree and tree, horse, developing.
" "	Wm. Sherwood & Co., Cap. \$5,000, Emerald silver and lead, Shaft, 100 tons, tree, horse.
Rochester Ry. & Mfrs. Co.	Melrose, Bond & Wells, Glendale, Mont., Tunnel, gold, silver and lead, Shaft, 100 tons, refractory, tree.
Rimmi Wolf, Meagher Ry. & Mfrs. Co.	Mountain Side Mining Co., Great Falls, Mont., 100 Central av., H. O. Clowen, prest., T. B. Woods, secy., A. E. Dookerman, treas., H. H. Chandler, mgr. and supt., Cap. stks. \$50,000, East Chimer and Mountain Side, silver and lead, Tunnels, 2,500 tons, tree, horse, New Glasgow, supt.
St. Louis	Conner & Gellough, Townsend, Mont., Switzerland and New Era, gold, silver and lead, Tunnel and shaft, 500 tons, refractory and tree, hand, 3 stamps, P. A. Conner, supt.
" "	Goodyear Mining Co., Helena, Mont., 11 Montana National Bank Bldg., J. M. Goss, prest., O. A. Smith, mgr., secy. and treas., Cap. stks. \$100,000, J. L. Goss, Jenny Lind, Hopetun and Gibraltar, gold, silver and lead, Shaft, refractory, horse, developing.
" "	North Elkhorn Mining & Refining Co., Townsend, Mont., Jas. A. Wood, prest., J. P. R. O'Connell, secy. and treas., Wm. Wood, mgr., Cap. stks. \$50,000, North Elkhorn Group, gold, silver, copper and lead, Tunnel, tree and refractory, developing.

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
St. Louis Jefferson (Continued.)	West Buxton Mining Co., R. E. Cove, prest. and treas.; T. D. Farrow, secy.; Jas. Burke, mgr. and supt. Cap. stk. \$500,000. Mountain Key, gold and silver. Tunnel; refractory; hand.
Seven-Up Deer Lodge (P. O. Stemple, Ry. Silver 293, 120 miles.)	Evans & Howe, Helena, Mont., 822 Ninth av. W. F. Howe, mgr. and supt. Cap. stk. \$5,000. Last Chance, gold and silver. Shafts; refractory and free; hand developing.
Sheridan Madison Ry., Dillon 770 (35 m.)	Noble Mining & Milling Co., St. Louis, Mo., 221 Chestnut st. S. M. Kennard, prest.; J. H. Wyeth, secy. and treas.; D. B. Noble, mgr. and supt. Cap. stk. \$2,000,000. Noble, gold, silver and lead. Tunnels; refractory and free; steam; 10 stamps developing.
" " "	Wisconsin Creek Mining Co., David McManor, mgr. and supt. Wisconsin Creek, gold. Tunnel; free and refractory; hand, 10 stamps developing.
Silver Star Madison Ry., White Hall 329 (18 miles.)	Bush Gold & Silver Mining Co., Marinette, Wis., Room 3 Stephenson Block. H. E. Mann, prest.; L. K. MacNeill, secy. and supt. W. A. Farnol, treas.; H. Bush, mgr. Cap. stk. \$200,000. Cyclone, Bull Dog and Marinette, gold and silver. Tunnel, 300 tons; free; hand.
" " "	J. E. Woods & Co., Cap. stk. \$20,000. Crickett and Grasshopper, gold. Tunnel and shaft; free; steam; 5 stamps; J. E. Woods, supt.
Snow Creek Abingher P. O. and Ry., Nehalem 233.	L. A. L. Consolidated Mining Co., Great Falls, Mont., H. O. Chown, prest.; F. R. Wilcox, secy. and treas.; Jas. Morris, mgr. and supt. Cap. stk. \$2,500,000. L. N. L. and Eureka, gold and silver. Shaft; refractory, horse developing.
Spotted Horse Pergus P. O. Macon Ry., Junction 529.	P. W. McAdow, Cap. \$100,000. Spotted Horse, gold. Shaft, 12,000 tons; free; steam; 20 stamps. J. M. Macon, supt.
Spring Gulch Missoula P. O. Carter, Ry. 529	Eastern Consolidated Mining Co., Missoula, Mont., T. M. Crouch, prest.; F. W. Cowan, secy., treas. and mgr. Cap. stk. \$800,000. Eastern Consolidated, silver. Tunnel developing.
Standard Pergus Ry., Barker 776.	O'Brien, Owens & Frizer, J. M. Owens, mgr. Cap. \$5,000. Alice, silver and lead. Shaft; free.
" " "	Stough & Matthey, Forest River, gold, silver and copper. Shaft; refractory developing.
" " "	Wolf Butte Consolidated Mining Co., Great Falls, Mont., P. O. Box 695. Geo. N. Abor, prest.; H. C. Shipley, secy. and treas. Henry Skellom, mgr. and supt. Cap. stk. \$1,000,000. indy. cap. \$800,000. Lost Trail, silver, copper and lead. Shaft and tunnel, 1,800 tons; free; horse.
Stemple, Lewis and Clarke Ry., Silver 293.	Rachel Mining Co., Helena, Mont., Aaron Hersfield, prest.; J. W. Chivers, secy.; P. J. Connor, mgr. and supt. Cap. stk. \$50,000. Rachel, gold and silver. Tunnel, 2,000 tons; free; 10 stamps.
" " "	Reed & Guilow, L. E. Guilow, mgr. Cap. \$50,000. Minnesota, gold. Tunnel, 500 tons; free; steam; 5 stamps.
Stevensville Pergus Ry. 529	Claremont Consolidated Mining Co., John Dowling, prest. and supt., Geo. A. Kinn, secy. and treas. Louis Morally, mgr. Cap. stk. \$2,000,000. Claremont, silver and copper. Shaft and tunnels; steam developing.
" " "	Citt Mining Co., Missoula, Mont., cor. Main and Higgins sts. Wm. McKeen, prest.; S. Fred, Hodgson, secy., First National Bank, treas.; Norman DeFord, mgr. Cap. stk. \$1,000,000. Cliff, Dallas and Blue Bird, gold, silver and lead. Shaft and tunnel, refractory, water developing. Frank Schmoller, supt.
" " "	Victor & Burnt Fork Mining Co., Victor, Mont., T. H. Hambridge, prest.; A. Herbert, secy. and treas.; Tom J. Devault, mgr. and supt. Cap. stk. \$1,000,000. Burnt Fork, silver and lead. Slope, free; horse developing.
Stone Station Deer Lodge Ry. 529.	Mount Towell Mining Co., Cleveland, Ohio, Perry-Payne Building. Joseph L. Colby, prest. and treas.; Charles T. Rand, secy. Cap. stk. \$1,500,000. Mount Towell, silver. Tunnel; free. Alton L. Duckert, mgr. supt.
Sunset Deer Lodge Ry., Bonner 520 (33 m.)	N. H. Chamberlain, Clemattha, gold. Tunnel, free, Huntington mill developing.
" " "	Superior & Sunset Mining Co., West Superior, Wis., R. J. Wemyss, prest. and treas.; F. W. Downer, secy.; W. A. Logan, mgr. and supt. Cap. stk. \$80,000. Wallace, O. K., Florence and 3 others, gold. Placer, hydraulics.
Thompson Missoula Ry., Woodfin 529.	Lynch & Harrison, North Pacific, silver and copper. Tunnel, 6 tons; refractory.
Three Forks Gallatin Ry. 529 (40 m.)	Montana Mining Land & Investment Co., Bozeman, Mont., H. A. W. Taylor, prest. and treas.; W. N. W. Blaney, secy.; W. Berklin, mgr. and supt. Cap. stk. \$1,000,000. Placer, gold. Free; steam.
" " "	Three Forks Mining Co., A. Hardebrook, prest.; John Thorne, secy.; J. O. Hopping, treas.; W. Berklin, mgr. and supt. Cap. stk. \$500,000. Burlington, gold and copper. Shafts; steam developing.
Townsend Abingher Ry. 529 (40 m.) in Jefferson County.	Mineral Hill Mining Co., J. R. Markes, prest.; E. H. Goodman, secy. and treas.; L. S. Thompson, mgr. Cap. stk. \$200,000. Corn Cocker, Hidden Treasure, Red Wing, Green Castle and Transverse, gold, silver and lead. Shaft; refractory, horse and hand.
" " "	Union Mining Co., O. T. H. Allen, prest.; H. S. Hyatt, secy.; Samuel T. Green, treas. Cap. stk. \$350,000. Union mine, gold and silver. Shaft and tunnel, hand.
" " "	Wadsworth Mining Co., Townsend, Mont., Saml. I. Green, prest. and treas.; A. B. Clements, secy. Cap. stk. \$250,000. Summit, silver and lead. Slope, free; horse developing; O. T. H. Allen, supt.
Troy P. O. Fry, Idaho Ry. 293.	Idaho Development & Mining Co., Fry, Idaho. Wm. Rosegrant, prest.; Herbert S. Barnes, secy.; Thos. J. Jones, treas.; Arthur R. Barnes, mgr. Cap. stk. \$80,000. Neptune, Tough Nut, Ida. Mineral King, Kingston, Mispah, Charleston, Atlas, Monitor and New Castle mines developing.
Twin Bridges Madison Ry., Whitehall 529	Crumb & Fitchett, Tidal Wave, silver and lead. Tunnels and slopes, 50 tons; refractory, hand.
Unionville Lewis and Clarke Ry. 529.	Mac Mining & Milling Co., Helena, Mont., A. McLean, prest.; H. A. McLean, secy. and treas.; J. C. McMane, mgr. Cap. stk. \$1,500,000. Mac and Gold Bag, gold. Tunnel, free; steam; 20 stamps.
Unionville Pergus Ry., Attingham 293 (30 m.)	George Cram, Prairie Bell and Amazon, gold, silver and lead. Shaft, refractory, hand developing.

GOLD AND SILVER—(CONTINUED)

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GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Wickes		Jefferson	Charles H. Heuer, George Croghan and Cruiser, gold, silver and lead. Tunnel, 240 tons; refractory; hand.	
"		"	Jacob Kant. Blizzard and Blizzard West, gold. Shaft and tunnel, 1,000 tons; refractory, horse and hand.	
"		"	James Thompson. Blue Eyed Nellie, Shepard, Mary Black stails, gold, silver and lead. Tunnel, 150 tons; refractory; hand.	
"		"	Two Cripples Mining Co. Thomas Williams, pres., E. H. Rankin, secy. and treas.; John Bowden, mgr. Two Cripples, gold, silver, copper and lead. Shaft, refractory; horse.	
Woodheast,	Mengher		Running Wolf Mining & Milling Co., Great Falls, Mont. Paris Gibson, pres., Otto Schonfeldt, secy. and treas., Charles S. Gibson, mgr. and supt. Cap. stk. \$1,000,000. Mortson, Woodheast and Log Cabin, silver and lead. Shaft and tunnel, 500 tons; free; horse (developing).	
	(P. O. Great Falls) Ry.			
	Barker 529 (20 mile c.)			
Woodville		Jefferson	John L. Ekstrom. Cap. \$75,000. Ekstrom and Oranito, gold and silver. Shafts and tunnels, 700 tons; free and refractory, hand. John Gilbert, supt.	
Ry., 233.		"	C. E. Kinnman. Nellie Kinnman, silver and copper. Shaft, refractory, steam.	
"		"	Leo Mining & Milling Co., St. Louis, Mo., 303 N. Third st. L. Freund, pres.; J. Meyer, secy.; J. Muecally, treas.; Samuel Schwab, mgr. Cap. stk. \$2,500,000. Leo, gold and silver. Shafts and tunnels, free, steam. Adolph Zimmerman, supt.	
Yogo	Mengher		Aene Mining Co. H. F. Lockett, pres., E. L. Lockett, secy. and treas.; Louis Pepin, mgr. and supt. Cap. stk. \$60,000. Aene Placer, gold. Hydraulic.	
Ry., Great Falls, 295,				
233		"	Emmett R. Carroll. Cap. \$500,000. Placer Mines, gold. Free; water and steam.	
"		"	Gold Mining & Reduction Co., Utica, Mont. John D. Waite, pres.; Fred B. Warren, secy. and treas.; Louis Pepin, mgr. and supt. Cap. stk. \$500,000. Chumax, Tiger and Manzanese Lode, gold and silver. Shaft and tunnel; free; hand.	
"		"	Judith Gold Mining Co. Judith, gold. Placer; hydraulic. Edgar Boling, supt.	
"		"	Fred Krensenbach. Cap. \$500,000. Christopher Columbus, gold, silver and lead. Shaft and tunnel; refractory, hand. Louis Sacchetti, supt.	
"		"	Neihart Gold, Silver & Lead Mining & Reduction Co., Great Falls, Mont. John A. Hay, pres.; James Donovan, secy.; F. E. Collins, treas.; Emmett R. Carroll, mgr. and supt. Cap. stk. \$1,000,000. Queen Melvina, Weather Wax, Mine Sloane and others, gold, silver, copper and lead. Shaft and tunnels, 50,000 tons; free and refractory, steam and water.	
"		"	New England & Belt Mountain Mining Co., Boston, Mass., 73 State st., Room 405. H. G. Farr, pres.; Otis M. Shaw, secy.; Geo. H. Appleton, treas.; Emmett R. Carroll, mgr. and supt. Cap. stk. \$1,000,000. Faith and Edna Mines, gold, silver and lead. Shafts and tunnel, 50,000 tons; free; steam and water.	
York	Mengher		Robertson & Kinade. Gold Speck, gold. Shaft, 30 tons; refractory; hand. H. L. Kinade, supt.	
Ry., Helena 233, 529.		"	R. C. Robinson. Cap. \$4,000. Golden Cloud, gold. Shaft, 500 tons; free; steam.	
"		"	S. A. Stevens. Last Rose of Summer, gold and silver. Shaft, free (developing).	

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Cascade	Mengher		Compromise Mining Co., Billings, Mont. Henry W. Rowley, pres.; Geo. M. Hayes, secy.; Chas. A. Wustlin, treas. Cap. stk. \$500,000. Compromise (developing).	
Ry., Livingston 529.		"	Mettinne Mining Co. (closed). J. T. Westbrook, pres. and mgr.; L. Peavey, secy. and treas. Cap. stk. \$800,000. Mettinne, manganese iron. Shaft, 2,000 tons; horse; J. T. Westbrook, supt.	
Elkhorn		Jefferson	Benjamin Foster & Co. Monarch, brown hematite. 1,000 tons; hand.	
Ry., 529.		"		
Wickes		Jefferson	Dean & McArthur. Timberline, iron pyrites and bismuth. Shaft, hand.	
Ry., 233, 529.		"		
Willis	Berkeley and		Shelby Mining Co., Dillon, Mont. Guy C. Barton, pres.; B. F. White, secy. and treas.; Ozias Willis, mgr. and supt. Cap. stk. \$250,000. Iron City and Cumberland, magnetic ore, 800 tons.	
Ry., Apex 576.				

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Bozeman		Gallatin	Potsdam Stone Co., R. R. Turner, propr., Room 5 Hotel Bk., Cap. \$50,000, Potsdam sandstone, Slope, 20,000 tons; horse and hand; mill.	
Castle		Meagher	George Berry (dead), Corneliuss, Open pit; kiln, 80 tons.	
Great Falls		Cascade	Edward J. Canary, Sixth st. and Second av., local, Cap. \$10,000, Canary, red sandstone, Open pit, 10,000 tons; hand, Thos. Pringle, supt.	
"		"	Great Falls Quarry Co., M. S. Parker, pres., mgr. and supt., Edward W. Kelly, secy. and treas., Cap. \$10,000, Sand Coulee, sandstone, Open pit; hand; mill.	
"		"	Riverside Stone Co. (dead), J. D. Taylor, pres. and mgr.; J. C. Oakland, secy., M. C. Kelsing, treas., Cap. \$50,000, Riverside, lime and sandstone, Slope, developing.	
Lime Spire		Jefferson	Jefferson Lime & Plaster Co., Battle Mont., Grand St. W. Granite st., F. T. McBride, pres., Geo. H. Casey, secy. and treas., D. A. Morrison, mgr., River side, limestone and flux, Open pit, 15,000 tons flux, steam kiln, 2,500 tons, D. A. Morrison, supt.	
Livingston		Park	O. W. Mattson, Cap. \$50,000, Livingston, limestone, 4,500 tons, hand.	

SEE ALSO SUPPLEMENTARY LIST.

NEVADA

ANTIMONY

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2000 POUNDS, KIND OF POWER USED, AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY	
Bethune Churchhill Ry. Lovelocks 756.	W. A. Van Reed, Ruby and Waho, Tinned, hand.
Lovelocks Humboldt Ry. 756.	James Sutherland, New York City, 16 Exchange pl., Cap. \$50,000, Black Knob, Shaft and tunnel, 1,000 tons; horse, A. H. Hufchins, supt.
Peavine Nye Ry. Sodaville 108.	Peavine Antimony Mining Co., Aricocha and Ashley, antimony, Shaft.

BORAX

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2000 POUNDS, KIND OF POWER USED, AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY	
Columbus Esmeralda Ry. Candelaria 108.	Columbus Borax Co., New York City, 104 Cedar st., Enslat, Calm, prest., Edward Lande, secy., Charles E. Calm, mgt., Cap. stk. \$100,000, Columbus, borate of lime and borate of soda, 600 tons, steam, Paul Heilman, supt.
" " Ry. Belleville 108.	Pacific Coast Borax Co., San Francisco, Cal., 230 Montgomery st., F. M. Smith, prest., Alton H. Clough, secy., Borate and carbonate of soda, natash, Steam and horse, C. B. Zabriskie, supt.
Toots Marsh Esmeralda P. O. and Ry. Candelaria 108.	Pacific Coast Borax Co., San Francisco, Cal., 230 Montgomery st., F. M. Smith, prest., Alton H. Clough, secy., Borate and carbonate of soda, natash, Steam and horse, C. B. Zabriskie, supt.
White Plains Churchill Ry. 692	Desert Borax Co., Desert, borax, Waller Schmidt, supt.

COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2000 POUNDS, KIND OF POWER USED, LUBRICANTS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY	
Bullion Elko Ry. Elko 692	Blue Bell Mining Co., San Francisco, Cal., 212 Sansome st., S. W. Levy, prest., H. P. Bush, secy., Anglo- California Bank, treas., Cap. stk. \$100,000, Blue Bell, copper, Shaft and tunnel.

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2000 POUNDS, KIND OF POWER USED, STEAM MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY	
Atlatun Humboldt P. O. Lovelocks 756 Ry. Candelaria 692.	Stone, Timlow & Co., Stego, Cal., War Eagle, gold, silver, lead and antimony, Shaft and dunt, 9,000 tons, retractory, horse, Geo. Lovelock jr., supt.
Arden White Pine Ry. Toca 692 (1200 ft.)	Davis & Sanford, Lucky Deposit and Argenta, gold, silver, lead and iron, Shaft and tunnel, 500 tons, re- tractory, hand, Simon Davis, supt.
" " (419 miles).	W. B. Lawler, Grizzly, Free Coinage, Double Standard and Bullion, gold and silver, Shaft and cuts, 10 tons, free, hand (developing).
Bald Mt. White Pine P. O. Cold Creek Ry., Turoka 255.	Charles Born, Lady of the Lake, gold and silver, Slope, 20 tons, free, hand.
Belmont Nye Ry. Austin 403 (850 ft.)	Barcelona Mining Co., New York City, 31 and 33 Broadway, Geo. Doyle, prest., Geo. F. Frighten, secy., and treas., Chas. McGregor, mgt. and supt., Cap. stk. \$500,000, Barcelona, gold and silver, Tunnel, retractory, steam, Huntington and I-dump mill.
" " "	Green Aldrich, Seventy-seven, silver, Slope, 10 tons, free, hand, 2 stamps.
" " "	Wm. McCann, McCann, silver and quicksilver, Shaft, free, steam.
Brownville Turoka Ry. 692.	Evan & Richardson, Onondaga, Puritan and London, gold, silver and lead, Tunnel, retractory (develop- ing), J. A. Evin, supt.
Bethune Churchhill Ry. Lovelocks 692.	Wilson W. Williams, Cap. \$30,000, Golden crown, gold and silver, Tunnels, 3,000 tons, retractory; steam 6 stamps, Wallace Goodell, supt.
Bridal Lamoine Ry. Fresno 776 (250 ft.)	Bristol Development Co., Minneapolis, Minn., 30 First av., S. W. D. Hale, prest., T. E. Hughes, secy., W. W. Huntington, treas., Cap. stk. \$200,000, Mayflower, silver, Slope and tunnel, retractory, steam, 10 stamps.

COAL BITUMINOUS—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Krimroy Ry. 75.		Summit	C. H. Gregg, local.	Gregg. Shaft, horse developing.
Lathrop Ry. 76.		Athens	Black Diamond Coal & Coke Co., Columbus, Ohio, Board of Trade Bldg.	Robert W. Gilbert, pres.; Milton Hopkins, secy.; J. H. Earshaw, treas. and mgr.; Cap. stk. \$50,000. Black Diamond. Tunnel, electricity, breaker, 50 coke ovens, capacity 15,000 tons, developing.; James Fox, supt.
"		"	McKinney Coal & Coke Co., Zanesville, Ohio, 42 N. Fourth st.	O. F. McKinney, pres. and mgr.; F. E. Huggins, secy. and treas.; Cap. stk. \$100,000. Slope, steam developing.; Thomas Ope, supt.
Laurelton Ry. Portland 763.		Jefferson	Wherling, Lake Erie & Pittsburg Coal Co., Toledo, Ohio.	W. R. Woodford, pres.; Downer Adams, secy. and treas.; Cap. stk. \$1,000,000. Laurelton. Tunnel, 15,000 tons, horse. George Albertson, supt.
Leesville Ry. 809.		Carroll	McCreary & Moore, local.	Ball. Open pit, 1,379 tons; hand. G. C. McCreary, supt.
"		"	A. Preston, local.	Open pit, 600 tons; hand.
Longstreth Ry. 181.		Hocking	Columbus & Hocking Coal & Iron Co., Columbus, Ohio, Board of Trade Bldg.	J. O. Moss, pres.; S. A. McManigal, secy.; W. J. Redington, treas.; R. H. Johnson, V. pres. and gen. mgr.; No. 19. Draft, 6,000 tons, steam, electricity. Vint, Ferguson, supt.
Lyonsdale Ry. 161.		Perry	M. Menham,	Cap. \$10,000. Lyonsdale. Tunnel, 3,000 tons, horse.
McArthur Ry. 181.		Vinton	Benjamin Newlan, local.	Tunnel, 172 tons, horse.
McTuneville Ry. 12.		Perry	Crawford, Gayer Bros. & Co.	Cap. \$1,000. Eagle. Tunnel, horse developing.; Wm. Gayer, supt.
McLurey Ry. 161.		Perry	J. H. Jones,	Cap. \$15,000. Beech Grove. Tunnel, 3,579 tons, horse. George Savage, supt.
Malvern Ry. 175.		Carroll	Phoenix Fuel & Hay Co., C. A. Weaver, pres.; R. Roberts, secy. and treas.; Samuel Hodgkinson, mgr.	Cap. stk. \$75,000. Phoenix. Slope, 1,700 tons, hand.
Manchester (P.O. Akron) Ry. Clinton 169, 12, 563, 793.		Summit	Brewster Coal Co., Akron, Ohio, 600 S. Main st.	Alexander Brewster, pres.; A. K. Brewster, secy. and treas.; A. A. Brewster, mgr.; Cap. stk. \$100,000. Turkeyfoot. Shaft, 3,000 tons, steam. John F. Mecham, supt.
Martins Ferry Ry. 171, 175.		Belmont	Gaylord Coal Co., G. Edwards, pres.	Theodore Smidgrass, secy. and treas.; John Lewis, mgr.; Cap. stk. \$20,000. Open pit.
Massillon Ry. 171, 585, 809.		Stark	Howells Coal Co., Anthony Howells, pres. and mgr.; John C. Albright, secy.	J. D. Wether, treas.; Cap. stk. \$20,000. Anderson. Shaft, 10,000 tons, steam. Edward Farris, supt.
"		"	F. G. Kremer & Co., C. O. Sherrill and Prospect sts., West Massillon.	Shaft, 3,000 tons, steam.
"		"	Massillon Pigeon Run Coal Co., A. Howells, pres. and mgr.; T. S. Howells, secy.	J. D. Wether, treas. Cap. stk. \$20,000. Pigeon Run. Shaft, 15,000 tons, steam. A. H. Owens, supt.
"		"	John Moore, Bridgeport.	Tunnel, 1,179 tons, hand.
"		"	Upper Pigeon Run Coal Co., W. K. F. Warwick, pres. and treas.; Bernhard Keller, secy. mgr. and supt.	Cap. stk. \$100,000. Upper Pigeon Run. Shaft, steam developing.
"		"	Warwick Coal Co., Bernhard Keller, pres. mgr. and supt.; W. K. F. Warwick, secy. and treas.	Cap. stk. \$100,000. Warwick. Shaft, steam developing.
"		"	Wherling, Lake Erie & Pittsburg Coal Co., Toledo, Ohio, Cherry st.	W. R. Woodford, pres.; Downer Adams, secy. and treas.; Cap. stk. \$1,000,000. Turkeyfoot. Shaft, 1,700 tons, horse. R. H. Wainwright, supt.
Middleport Ry. 181, 344, 533.		Meigs	Michael & Edwards, local.	Diamond. Tunnel, horse.
"		"	Silver Run Coal Co., S. A. C. Run, D. H. L. 1,000 tons, horse.	A. Hase, supt.
Millersburg Ry. 169.		Holmes	Biederback Bros., local.	McTroy. Tunnel, 700 tons, hand.
"		"	Cary & Unison, local.	Slope, 10,000 tons.
"		"	John Chevalard,	Cap. \$10,000. D. H. horse.
"		"	John Craft & Co.,	Cap. \$20,000. Open pit, horse.
"		"	John Horn,	Tunnel, 1,000 tons, hand.
"		"	F. B. Skelly,	Open pit, 1,450 tons, hand.
Mineral Point Escutewas Ry. 175, 778.			Brick Bros.,	Cap. \$1,500. Tunnel and slope, 14,000 tons, steam. John Brick, supt.
"		"	Edward Holden,	Cap. \$5,000. Shaft, 15,000 tons, horse. Thomas Osborne, supt.
"		"	Ohio Coal Mining Co., Akron, Ohio, 1 A. St. berling, pres.; L. C. Miles, secy. and treas.; J. W. McCon- mgr.; Cap. stk. \$40,000. Mineral Ridge, Cleveland, Ohio, 10th Ave. Tunnel, developing.; George J. Mack- ley, supt.	
"		"	Ridgway Barton Co., Massillon, Ohio, J. P. Barton, pres. and treas.; D. Johns, secy.	Cap. stk. \$30,000. Hull Run. Slope, 9,200 tons, horse. J. A. Klein, supt.
Mineral Ridge Fremont Ry. 548.			William Powers, local.	Langan. Slope, 1,000 tons, horse.
Minersville Ry. Pomeroys 1st.		Meigs	Ed. Koush, local.	Eureka. Open pit, horse.
"		"	John J. Williams, local.	Tunnel, 200 tons, hand.
Minerva Ry. 173, 175, 376.		Stark	J. W. Shaw,	Cap. \$500. Rustic Mountain. Tunnel, 480 tons, hand, horse. John Miles, supt.

COAL BITUMINOUS—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Monday Ry. 181.		Hoeking	Somers Coal Co., Columbus, Ohio, 11 E. Town st., A. Brenholtz, prest.; James O. Somers, secy. and treas., Cap. stk. \$9,000. Drift, 8,000 tons; horse, F. Williams, supt.	
Mt. Pleasant Ry. 869.		Jefferson	Wheeling, Lake Erie & Pittsburg Coal Co., Toledo, Ohio, W. R. Woodford, prest.; Downer Adams, secy. and treas., Cap. stk. \$1,000,000. Long Run. Tunnel, 155,000 tons; horse, George Atherton, supt.	
Murray Ry. 181.		Hoeking	Columbus & Hoeking Coal & Iron Co., Columbus, Ohio, Board of Trade Bldg., J. O. Moss, prest.; S. A. McManual, secy.; W. J. Redington, treas., R. H. Johnson, v.-prest. and gen. mgr. Nos. 31 and 41. Drift, 60,000 tons; steam, horse, Vint. Ferguson, supt.	
"	...	"	Greendale Furnace Co., Columbus, Ohio, V. M. C. A. Bldg., J. A. Long, prest.; H. F. Holloway, secy. and treas., C. H. Boardman, mgr. Cap. stk. \$25,000. Murray City. Slope, 200,000 tons; steam, John Hopkins, supt.	
Navalier Ry. 173, 171, 809.		Stark	Levi Barr. Tunnel, 240 tons, hand.	
"		"	Ridgway Burton Co., Massillon, Ohio, J. P. Burton, prest. and treas., D. Johns, secy. Cap. stk. \$80,000. South Massillon. Shaft, 30,500 tons; steam, Wm. Hardgrove, supt.	
Neffs Siding (P. O. Shields) Ry. 42.		Belmont	George Neff locally. Cap. \$1,000. Open pit, 40 tons; hand.	
Negley Ry. 766.		Columbiana	Sutherns Mining Co., A. H. Davis, prest.; James Sutherns, treas., mgr. and supt. Cap. stk. \$10,000. Pleasant Valley. Drift, 75,000 tons; horse.	
Nelsonville Ry. 181.		Athens	Buckeye Coal Co., Geo. E. Hall, prest.; Geo. O. Shoemaker, secy.; John Gmity, treas.; R. A. Crippen, mgr. Cap. stk. \$85,000. Buckeye. Tunnel, 75,000 tons; horse, John Gmity, supt.	
"		"	Columbus & Hoeking Coal & Iron Co., Columbus, Ohio, Board of Trade Bldg., J. O. Moss, prest.; S. A. McManual, secy.; W. J. Redington, treas.; R. H. Johnson, v.-prest. and gen. mgr. Nos. 15, 17, 27, 29. Drift, 180,000 tons; steam, electricity.	
"		"	Hoeking Valley Coal Co., Columbus, Ohio, 44 E. Broad st., E. A. Cole, gen. mgr. Cap. stk. \$200,000. Minkos Run, Hawkes. Tunnel, 200,000 tons; steam, compressed air.	
"		"	Johnson Hill Coal Co., Wm. Myers, prest.; Frank W. Poston, secy.; John W. Bennett, treas., Wm. Dalrymple, mgr. and supt. Cap. stk. \$9,000. Johnson Hill. Slope, 30,000 tons; horse.	
"		"	J. M. Lania. Cap. \$6,000. Tunnel, 15,000 tons; hand.	
"		"	Last Run Coal Co., James Dew, prest.; Charles F. Myers, secy.; C. H. Dean, treas.; Joseph Slater, v.-prest. and gen. mgr. Cap. stk. \$90,000. Last Run. Drift; electricity (developing). Wm. G. Halbert, supt.	
"		"	Nelsonville Sewer Pipe Co. (locally). James Dew, prest.; C. H. Dean, secy. and treas. Cap. stk. \$25,000. Steam.	
"		"	C. L. Poston & Co. Cap. stk. \$100,000. C. L. Poston, mgr. Green Elder. Drift, 150,000 tons; steam, Cal. Melinger, supt.	
"		"	Springfield Coal & Ice Co., Springfield, Ohio, 93 S. Limestone st., E. S. Kelly, prest.; F. W. Ludlow, secy.; H. Vozes, mgr. Cap. stk. \$50,000. Springfield. Tunnel, 25,000 tons; horse, Thomas Jones, supt.	
New Albany (P. O. Salem) Ry. Co- lumbus 42, 129, 170, 181, 182, 323, 385, 765.		Madison	George Godward & Sons (locally). Tunnel, 3,650 tons; horse.	
New Berlin Ry. 778.		Stark	Clayton Hall (locally). Cap. \$2,000. New Berlin. Slope, 740 tons; horse.	
"		"	Richard Warburton (locally). Graham. Open pit, 500 tons; hand.	
New Comerstown Tuscarawas Ry. 174, 584.		Tuscarawas	Thomas Langhead. Tunnel, 250 tons; horse.	
New Franklin Ry. Mount 563.		Stark	Wm. Sommerville (locally). Cap. \$8,000. Slope, 1,800 tons.	
New Lexington Ry. 164, 765.		Perry	D. F. Davis. Cap. \$1,000. Drift, 1,000 tons; hand.	
"		"	Wales, Hammond & Colbit. Nugent. Tunnel, 1,681 tons; hand, W. J. Roddick, supt.	
New Lisbon Ry. 509, 586.		Columbiana	Edward Broughton (locally). Cap. \$1,000. Tunnel, 1,500 tons; hand.	
"		"	P. March & Son. Cap. \$6,000. March. Tunnel, 4,100 tons; hand, H. A. March, supt.	
"		"	Sterling Mining Co., N. F. Wood, prest.; H. H. Deban, secy.; W. H. Warner, treas. and mgr. Cap. stk. \$9,000. Central Mine. Slope, 15,000 tons; steam, Jos. Farmer, supt.	
New Philadelphia Tuscarawas Ry. 171, 175.		Tuscarawas	Goshen Coal Co., Cleveland, Ohio, 35 Superior st., J. A. Bender, prest. and treas.; A. W. Brown, secy. Cap. stk. \$100,000. Goshen. Drift, 100,000 tons; steam, C. J. Brokenshire, supt.	
"		"	G. W. Mathias. Cap. \$15,000. Slope, 2,000 tons; horse, hand, Ed. Mathias, supt.	
"		"	H. S. Colbert & Co., Cleveland, Ohio, Western Reserve Bldg., Cap. stk. \$60,000. Colbert. Drift, 225,000 tons; steam, John Price, supt.	
New Pittsburg (P. O. Blatchford) Ry. 181.		Hoeking	New Pittsburg Coal Co., Columbus, Ohio, 11 and 12 Clinton Bldg., Thomas Johnson, prest. and treas.; G. D. Preston, secy.; Edward Johnson, v.-prest., gen. mgr. and supt. Cap. stk. \$100,000. Powell's Run. Drift, 200,000 tons; steam, compressed air.	
New Straitsville Ry. 181.		Perry	Columbus & Hoeking Coal & Iron Co., Columbus, Ohio, Board of Trade Bldg., J. O. Moss, prest.; S. A. McManual, secy.; W. J. Redington, treas.; R. H. Johnson, v.-prest. and gen. mgr. Nos. 15, 17, 27, 29. Drift, 40,000 tons; steam, electricity, horse.	
"		"	Ohio Coal Co., Columbus, Ohio, Board of Trade Bldg., Black Diamond. Drift, 50,500 tons; horse, David Winters, supt.	

COAL—BITUMINOUS—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
North Industry Ry. 778.	Stark	Wade Coal Co., Cleveland, Ohio, 11 Bratenahl Block. H. D. Dennis, pres't., John C. Allen, secy. and treas. Cap. stk. \$7,500. Wade. Tunnel, horse. James Perkins, supt.		
North Lawrence Ry. Lawrence 563.	Stark	James Mullins & Sons, Wooster, Ohio. Cap. \$50,000. Minglewood Nos. 1 and 2. Slope, shaft, 75,000 tons, steam. T. H. Elser, supt.		
"	"	Ridgway Burton Co., J. P. Burton, pres't. and treas., D. Johns, secy. Cap. stk. \$80,000. Palermo. Shaft, 41,000 tons, steam. John Hodgson, supt.		
North Lima Ry. 156.	Mahoning	Adam Little and others, local. Spadville. Shaft, 50 tons, horse.		
"	"	Daniel Little & Son, local. Cap. \$5,000. Shaft, 800 tons, steam.		
"	"	Solomon Pugh, local. Open pit, 1,000 tons, horse.		
Oakdale Ry. 182.	Athens	Somers & Co., Columbus, Ohio, 11 E. Town st., A. Reinbolds, pres't., James O. Somers, secy. and treas. Cap. stk. \$90,000. Sunday Creek. Shaft, 50,000 tons, steam. F. Williams, supt.		
Oak Hill Ry. 44.	Jackson	Etna Fire Brick & Coal Co., John D. Davies, pres't., Etna Morgan, secy., J. J. Jones, treas. and mgr. Cap. stk. \$24,000. Etna. Slope, 2,800 tons, hand.		
Olive Furnace Ry. 156.	Lawrence	McGugin & Co., local. Olive Furnace. Tunnel, 1,000 tons. W. H. McGugin, supt.		
Orboston Ry. 181.	Hocking	Raybould Coal Co., Columbus, Ohio, 17 1/2 Canton Bldg. Samuel Raybould, pres't. and mgr., Frank A. Prendergast, secy., D. C. Foster, treas. Cap. stk. \$40,000. Slope, steam, electricity, developing. Wm. Raybould, supt.		
Osnaburg Ry. 173.	Stark	John Carothers, local. Miller's. 10 ft. 1,200 tons.		
Palmira Ry. 476.	Portage	Holston Coal Co., Cleveland, Ohio, Room 50 Wallshire Bldg. H. D. Holston, pres't. and mgr., H. D. Marble, secy. and treas. Cap. stk. \$25,000. Nos. 1 and 2. Shafts, 90,000 tons, steam. Thos. J. Williams, supt.		
"	"	Palmira Coal Co., Youngstown, Ohio, 114 N. Market st. Henry Wick, pres't. Wilford P. Ames, secy., treas. and mgr. A. and B. Shaft, 50,000 tons, steam. H. R. Evans, supt.		
Petersburg P. O. Albion 173 2/3.	Carroll	Charles W. Lewis, Allen. Slope, horse, developing.		
Pike P. O. and Ry. Industry 778.	Stark	Wm. Stutz, local. Open pit, 100 tons, hand.		
Point Pleasant, Lakeside P. O. name Dysons Ry. 174 2/3.	Cuyahoga	Cisco Mining Co., Cleveland, Ohio, Western Reserve Bldg. W. E. Huntington, pres't., N. H. Foster, secy. and treas., H. S. Odell, mgr. Cap. stk. \$75,000. Cisco. Shaft, 20,000 tons, steam. John Pizer, supt.		
Pomeroy Ry. 181.	Meigs	Coal Ridge Salt Co., M. E. Wells, pres't. John M. Davis, secy., J. W. Thomas, mgr. Cap. stk. \$75,000. Coal Ridge. Tunnel, 10,000 tons, horse. Daniel W. Daniels, supt.		
"	"	E. Koehler, local. Cap. \$2,000. Foxwood. Tunnel, 8,000 tons, horse. Dan Doell, supt.		
"	"	Pawcock Coal Co., N. Bengal, pres't., Fred Florsbush, secy. and treas., Martin Florsbush, mgr. Cap. stk. \$5,000. Pawcock. Slope, 10,000 tons, horse. Wm. Florsbush, supt.		
Powhatan Point, Belmont Ry. 535.	Belmont	John F. Schlegel & Bros., local. Cap. \$2,000. Schlegel. Shaft, 180 tons, steam.		
Quaker City, Ry. 42.	Cuernsey	Alex. Cochran, Cap. \$20,000. Tunnel, 75,000 tons, horse.		
Radehill Ry. 181.	Vinton	John Blone. Blone. Tunnel, 800 tons, hand. H. C. Booth, supt.		
Redfield Ry. 182.	Perry	Columbus & Eastern Coal Co., Columbus, Ohio, 4 J. F. Hart's, pres't., S. J. Fackelizer, secy., James Cochran, treas., C. A. Dean, mgr. and supt. Cap. stk. \$45,000. 10 ft. 17,000 tons, horse.		
"	"	James Coyle & Son, Cap. \$5,000. Chestnut Grove. 10 ft. 12,000 tons, horse. G. W. Coyle, supt.		
"	"	Catty Coal Co., Columbus, Ohio. Cap. \$50,000. Wallace. 10 ft. 20,000 tons, horse. Wm. Wallace, supt.		
"	"	Davis Mining Co., B. J. Davis, pres't. and supt., D. J. Williams, secy. and treas., John M. Taylor, mgr. Cap. stk. \$4,000. Davis. Open pit, 5,000 tons, horse.		
"	"	Standard Coal Co., Columbus, Ohio, 2 Wesley Block, 101 N. High st. D. Matthews, pres't., Charles Ratzel, secy. and treas., Cap. stk. \$100,000. Lane No. 1. Open pit, 40,000 tons, horse. John Koopis, supt.		
"	"	Wallace Coal Co., Columbus, Ohio, John B. Hamilton, pres't., Joseph Catty, secy. and treas., Wm. Wallace, mgr. and supt. Cap. stk. \$20,000. Wallace. Shaft, 6,000 tons, horse.		
Rendville Ry. 182 5/8.	Perry	W. P. Bond & Co., Chicago, Ill., 152 Madison st. Sunday Creek No. 3. Shaft, slopes, steam. James McLaughlin, supt.		
Riverton Ry. Wellston 156 5/8.	Jackson	Riverton Coal Co., F. A. Hockett, pres't. and mgr., J. L. Compert, mgr. secy. and treas. Cap. stk. \$3,000. Riverton. Tunnel, steam. J. J. Donahue, supt.		
Rogers Ry. 58.	Columbiana	Quaker Adley Mining Co., Youngstown, Ohio, 17 Public Square. Ralph J. Wick, pres't., M. C. McNabb, secy., N. L. Wood, treas., J. M. Walton, mgr. Quaker. Shaft, 5,000 tons, horse. James Thompson, supt.		
Romney P. O. Arkwick Ry. 75.	Muskingum	Diamond Coal Co., Cosesville, Ohio. Cap. \$2,000. Diamond. Tunnel, 10 ft. 500 tons, horse. Day & Davis, supt.		
"	"	O. F. McKinney, Zanesville, Ohio, 4 N. Fourth st. Oak Grove. Shaft, 50,000 tons, horse and hand. H. N. Honk, supt.		
Roscoe Ry. Coshocton 17 1/2 5/8.	Coshocton	James H. Cohen, local. Broadway. 10 ft. 180 tons, hand.		
Roseville Ry. 164.	Perry	Standard Coal Co., Columbus, Ohio, 26 Wesley Block, 101 N. High st. D. Matthews, pres't., Charles Ratzel, secy. and treas., Cap. stk. \$100,000. Standard No. 2. Open pit, 80,000 tons, horse. J. C. H. Harts, supt.		

COAL—BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND COUNTY.		
St. Clairsville	Belmont	Black Diamond Coal Co., C. Troll Sons, proprietors. Cap. \$50,000. Black Diamond, 100,000 tons; horse; hand.	
"	"	Ohio & West Virginia Coal Co., C. Troll Sons, proprietors. Cap. \$50,000. Ohio and West Virginia, 100,000 tons; horse; hand.	
Salem	Columbiana	Home Duin (local). Duin. Slope, 5,000 tons; horse.	
"	"	Howells & Ashmar (local). Cap. \$3,000. Greenamyer. Shaft, 3,000 tons; steam. J. K. Ashmar, supt.	
"	"	Sheldon Parker (local). Parker, 300 tons; horse.	
"	"	Salem Co., Cap. \$1k. \$50,000. Slope. Wm. Duin, supt.	
"	"	Stephen Stone (local). Drift, 300 tons; hand.	
Salineville	Columbiana	S. S. Carnahan. Cap. \$8,000. Empire. Open pit, 37,000 tons; steam; horse.	
"	"	T. P. Francis (local). Slope, 2,000 tons; horse.	
"	"	H. H. Kirk (local). Drift, 3,000 tons; horse. A. D. Fotheringham, supt.	
Sandrun	Hocking	Columbus & Hocking Coal & Iron Co., Columbus, Ohio, Board of Trade Bldg., J. O. Moss, pres.; S. A. McManigal, secy.; W. J. Redington, treas.; R. H. Johnson, v.-pres. and gen. mgr. Nos. 21 and 37. Drift, 120,000 tons; steam; electricity.	
Sarahsville	Noble	J. H. Young. Cap. \$800. Raceoon. Tunnel, 2,000 tons; horse. Levi Vandyne, supt.	
Seaford	Muskingum	Zanesville Coal Co., Zanesville, Ohio, 42 N. Fourth st., O. F. McKinney, pres. and mgr.; F. E. Higgins, secy.; J. B. W. Anshen, treas. Cap. \$1k. \$100,000. No. 7. Open pit, 30,000 tons. Thomas Ope, supt.	
Shawnee	Perry	Columbus & Hocking Coal & Iron Co., Columbus, Ohio, Board of Trade Bldg., J. O. Moss, pres.; S. A. McManigal, secy.; W. J. Redington, treas.; R. H. Johnson, v.-pres. and gen. mgr. Nos. 31 and 33. Drift, 120,000 tons; steam; electricity.	
"	"	Gosline & Barlow, Toledo, Ohio, 422 Madison st. Furnace. Slope, 100,000 tons; steam. J. P. Meredith, supt.	
"	"	J. H. Hazelton. Rock Run. Tunnel, horse.	
"	"	New York & Perry Coal & Iron Co., New York City, 2 Wall st., New York. Tunnel, drift, 150,000 tons; steam. Samuel W. Butt, supt.	
"	"	Shawnee Valley Coal & Iron Co., Newark, Ohio. John C. Hamilton, pres.; L. J. Johnson, secy.; James H. Smith, treas.; Thomas Phillips, mgr. and supt. Drift, 140,000 tons; steam.	
"	"	H. D. Turney & Co., Columbus, Ohio. H. D. Turney, pres.; T. W. Guthrie, secy.; G. S. Benson, treas.; Thomas Cochrane, mgr. and supt. Cap. \$1k. \$250,000. No. 1. Drift, 300,000 tons; hand.	
"	"	Upton Coal Co., Upton. Tunnel, 125,000 tons; hand; horse; steam; electricity. R. E. Williams, supt.	
Sherrillsville	Carroll	Fuller Coal Co., Toledo, Ohio. D. W. Fuller, pres.; James McLean, secy. and treas. Nos. 2 and 3. Tunnel, 125,000 tons; steam; horse. R. H. Wainwright, supt.	
"	"	Somers & Wainwright, Cleveland, Ohio, 8 Euclid av. Cap. \$25,000. No. 4. Slope, 5,200 tons; steam. Frank McIntosh, supt.	
Smith	Mahoning	Ralph Ermsen (local). Slope, 3,000 tons; horse.	
Stenbenysville	Jefferson	Jefferson Coal & Iron Co., Wm. P. Hays, pres.; Geo. W. Metcok, secy. and mgr.; Wm. Stanton, treas. Cap. \$1k. \$50,000. Rustard. Shaft, 4,436 tons; steam. John Kelly, supt.	
"	"	Stenbenysville Coal Mining Co., R. Sherrard Jr., pres.; George W. Metcok, secy. and treas.; Wm. Smith-wate, mgr. and supt. Cap. \$1k. \$50,000. Shaft, 40,000 tons; steam. 6 coke ovens, capacity 1,000 tons.	
"	"	H. L. Wilson (local). Cap. \$5,000. Wilson. Open pit, 5,000 tons; horse.	
Stewartsville	Belmont	Robert Clark (local). Slope, 60 tons; hand.	
St. Franklin	"	Owen Mehan. Cap. \$20,000. Franklin. Tunnel, 65,000 tons; horse. W. T. Smith, supt.	
Syracuse	Meigs	Syracuse Coal & Salt Co., Ralph Cheney, pres.; P. W. Robbins, secy. and treas.; L. H. Bridgeman, mgr. Cap. \$1k. \$100,000. Syracuse. Shaft, 52,500 tons; steam; horse. Adam Duckworth, supt.	
Tallmadge	Summit	W. L. Thomas & Son, Cap. \$1k. \$125,000. Fairview. Shaft, 5,000 tons; steam. W. L. Thomas, supt.	
Thornburg	Galbraith	O. D. Morgan (local). Open pit, 500 tons; hand.	
Trimble	Athens	Crescent Coal Co., Columbus, Ohio, Board of Trade Bldg., L. R. Doty, pres.; A. O. Manck, secy. and treas. Cap. \$1k. \$100,000. Crescent. Shaft, 20,000 tons; electricity. Steam. S. F. Knox, supt.	
Tuscarawas	Tuscarawas	A. Berning. Cap. \$1,000. Diamond. Tunnel, 635 tons; horse. J. M. Hernandez, supt.	
"	"	Nicholas Herl. Cap. \$12,000. Mineral Ridge. Open pit, 20,000 tons; horse. A. Stuber, supt.	
"	"	C. P. Minnich. Cap. \$10,000. Mt. Carbon. Tunnel, 10,000 tons; hand. Benner Minnich, supt.	
Timberlake	Tuscarawas	Diamond Fire Clay Co., James Ball, pres.; J. M. Cooper, secy., treas. and mgr. Cap. \$1k. \$25,000. Diamond. Tunnel, 7,000 tons; horse. George Ross, supt.	
"	"	D. Dunlavy (local). Drift, 1,000 tons; hand.	
"	"	John W. Fetter (local). Cap. \$1,000. Fetter. Open pit, 620 tons; hand.	
"	"	Ebenezer H. Gowin (local). Pent Hill. Open pit, hand.	

COAL—BITUMINOUS—(CONTINUED.)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	COUNTY.		
Chillicothe	Tuscarawas	Jacob Huston (local). Cap. \$5,000. Huston. Open pit, 500 tons, horse.	
"	"	"	(Continued.)
"	"	John M. Smith (local). Scott. Draft, 1,440 tons, horse.	
"	"	Chillicothe Fire Clay Co., W. B. Thompson, pres., T. J. Evans, secy., George Beck, treas. Cap. stk. \$30,000. Slope, 8,000 tons.	
Utley Ry. 706.	Athens	Federal Valley Coal Co., New York, N. Y., 41 Day st., Clarence Stephens, pres., Samuel Snow, secy., Melvin Stephens, treas. Cap. stk. \$100,000. Federal creek No. 2. Tunnel, 30,000 tons, horse; breaker, washer, 125 coke ovens, capacity 5,000 tons, N. W. Musgrave, supt.	
Vienna Ry. 506.	Trumbull	Horne Brook Coal Co., Youngstown, Ohio. Late Hornebrook, pres., James Davis, secy. and treas., John Brunswick, mgr. and supt. Cap. stk. \$1,000. Slope, steam developing.	
Wadsworth Ry. 503.	Medina	Akron Coal Co., Akron, Ohio, 112 S. Howard st. H. F. Loomis, pres. and mgr., James P. Loomis, secy. and treas. Cap. stk. \$30,000. Stony Ridge. Slope, 60,000 tons; steam. A. Gerstendillager, supt.	
"	"	Card & Barrett Coal Co., Cleveland, Ohio, 14 Euclid av. Cap. \$20,000. No. 1, Eldorado. Slope, shaft, 67,171 tons, steam. O. V. Dibble, supt.	
"	"	W. B. Coleman. Risor Slope. 7,000 tons, steam. J. Jordan, supt.	
"	"	Excelsior Mining Co., John J. Wagon, pres. and treas., C. F. Wagon, secy. and mgr. Cap. stk. \$50,000. Excelsior. Slope, 100,000 tons, steam. Wm. Lydard, supt.	
Wakem Ry. Broadwell 766.	Athens	J. R. Wickham. Slope, 300 tons, horse.	
Washingtonville Ry. 505.	Columbiana	Cherry Valley Iron Works. J. H. King, pres. S. F. Wacker, secy., C. M. Schmeck, treas. Cap. stk. \$250,000. Cherry Valley. Slope, 12,000 tons, steam.	
"	"	East View Mining Co., Youngstown, Ohio, 114 N. Market st. W. H. Warner, pres., Wilford P. Ames, secy., treas. and mgr. Cap. stk. \$3,000. East View. Slope, 30,000 tons, steam. John Heiman, supt.	
"	"	Walter & Ferriss Coal Co., Youngstown, Ohio, 12 Police square. J. M. Ferriss, pres. and treas., J. H. Streeter, secy., J. M. Walter, mgr. Dr. H. 50,000 tons. Shaft, horse. James Thompson st. mgr.	
Waynesburg Ry. 475.	Stark	George Munser (local). Cap. \$800. Rains. Slope, 1,000 tons, steam.	
Wellston Ry. 42, 156, 545.	Jackson	Comet Coal Co., Dayton, Ohio, 104 Wayne av. W. W. Whitmore, pres., J. D. Whitmore, secy., treas. and mgr. Cap. stk. \$30,000 and v. cap. \$18,000. Comet. Shaft, 3,000 tons, steam. Peter Garbighier, supt.	
"	"	Eliza Coal Co., Dayton, Ohio, 27 S. Third st. S. J. Patterson, pres., C. C. Richardson, secy., D. Armstrong, treas., John Adams, mgr. Cap. stk. \$3,000. Eliza. Shaft, 50,000 tons, steam.	
"	"	Edgart Coal & Mining Co., 1 E. B. Boyd, pres. A. E. H. Ooms, secy., John J. Roberts, treas. Theo. Philhart, mgr. Cap. stk. \$200,000. Shaft, 19,000 tons, steam.	
"	"	Southern Ohio Coal & Iron Co., Dayton, Ohio, 30 E. Third st. A. A. Thomas, pres., W. J. Catron, secy., treas. and mgr. Cap. stk. \$300,000. No. 1. Slope, 100,000 tons, steam. Allen St. H. supt.	
"	"	Superior Coal Co., M. S. Stumberger, pres., H. S. W. 50 secy. and mgr. Cap. stk. \$10,000. Shaft, steam, horse.	
"	"	Wayne Light Coal Co., R. H. Waynwright, pres., D. J. Hart, mgr. and supt. Cap. stk. \$75,000. Wayne Light. Shaft, 15,000 tons, steam.	
Wellsville Ry. 473, 543.	Columbiana	C. R. Weaver (local). Cap. \$5,000. Tunnel, 100,000 tons, hand. A. R. Weaver, supt.	
Weston Sta. Ry. 483, 503, 543, 563, 593, 773.	Sharon	D. P. Davis (local). Slope, 200 tons, horse.	
W. Lafayette Ry. 581.	Coshocton	Benj. C. W. Paine (local). Butter Run. Tunnel, 3,000 tons, hand.	
Yorkville Ry. 475.	Jefferson	Ohio & Pennsylvania Coal Co., Cleveland, Ohio, 10 E. 26th, pres. A. McGraw, secy. Open pit, horse, W. H. Fwing, supt.	
Youngstown Ry. 483, 503, 563, 593.	Malheur	Watch Haze Coal Co., 114 N. Market st. Henry Wadsworth, W. H. P. Ames, secy., treas. and mgr. Watch Haze. Shaft, 1,000 tons, steam. O. V. Jacobs, supt.	
Zaleski Ry. 43.	Vinton	Zaleski Co., W. F. McCutick, pres., Angus Smith, secy. and treas., C. C. Thompson, mgr. Cap. stk. \$10,000. Zaleski. Dr. H. 1,000 tons, horse. T. F. Walk, supt.	
Zanesville Ry. 42, 173, 563, 103, 182, 894.	Muskingum	James H. Alexander (local). Open pit, 1,000 tons, hand.	
"	"	Radlow & Burton, 26 E. Pike st. Slope, 1,000 tons, hand. George Jones, supt.	
"	"	J. A. Deffenbeck. Cap. \$10,000. Oak View. Tunnel, 4,000 tons, horse. Thomas Love, supt.	
"	"	Theo. Dietz (local). Slope, 35 tons.	
"	"	John German (local). Tunnel, 2,000 tons, hand. George German, supt.	
"	"	Geo. H. Harper (local). Open pit, 1,800 tons, horse.	
"	"	Thomas Potts, 67 Adams st. local. Tunnel, 1,500 tons, hand.	
"	"	Wm. A. Wetmore, 66 Eighth st. local. Cap. \$5,000. Tunnel, 14,000 tons, horse. Edgar Fox, supt.	
Zoar Ry. 174, 175, 893.	Tuscarawas	Wm. R. Jones. Cap. \$2,000. Eagle Run. Tunnel, 11,200 tons, horse.	
"	"	Zoar Society (local). Tunnel, 75 tons, hand.	

COAL CANNEL

LOCATION OF MINE, RAILWAYS, WATER ROUTES, AND SHIPPING POINT			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Pigeon Run	Stark	O. Young Coal Co., Cleveland, Ohio, 725 Society Savings Bldg., Cap. stk. \$60,000. Camp Creek. Shaft, 50,000 tons, steam. Joseph Collier, supt.		
Warsaw	Coshocton	Pinkney Cannel Coal Co., Cleveland, Ohio, 505 Western Reserve Bldg., J. E. Zerby, pres. and treas., E. E. Barney, secy., Cap. stk. \$50,000. Warsaw. Drift, 10,000 tons; horse. W. G. Jones, supt.		

FIRE CLAY

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.	
TOWN	AND	COUNTY		
Canal Dover, Tuscarawas		Dover Fire Brick Co., Cleveland, Ohio, cor. Bank and Superior sts., C. S. Barrett, pres. and treas.; G. H. Garrison, secy.; P. Arnold, mgr., Cap. stk. \$100,000. Barrett's. Tunnel, 30,000 tons, hand.		
Canton	Stark	Canton Brick Co., H. S. Belden, pres.; J. L. Hingley, secy. and treas., Peter Miller, mgr., Shale clay.		
Columbus	Columbiana	Union Fire Clay and Stone Co., C. Coleman, pres.; C. S. Coleman, secy. and treas., Wm. Douglas, mgr., Cap. stk. \$10,000. Coleman, Tunnel, 17,000 tons; steam. J. T. Griffiths, supt.		
Cuyahoga Falls	Summit	Camp & Thompson, Cap. \$100,000. Open pit, 18,000 tons; water, steam.		
E. Palestine	Columbiana	State Line Sewer Pipe Co., James Mullins, pres., Robert E. Taggart, secy. and treas., Hugh Laughlin, mgr. and supt., Cap. stk. \$50,000. State Line. Slope, 50,000 tons, steam.		
Empire	Jefferson	Congo Fire Clay Co., B. F. Wilkinson, pres. and mgr., Thos. Wilkinson, secy. and treas., Cap. stk. \$80,000. Congo. Slope, 80,000 tons.		
"	"	Minor Fire Clay Co., Tunnel, 8,000 tons, horse.		
Freeman	Jefferson	Freeman Fire Clay Co., C. A. Freeman, pres., J. M. Freeman, secy., Cap. stk. \$80,000. Tunnel, 15,000 tons		
Greenford	Madison	Greenford Fire Clay Co., Cap. stk. \$5,000. Slope, 2,000 tons, steam.		
Haydensville	Hocking	Haydensville Mining & Manufacturing Co., Charles H. Hayden, pres., J. W. Jones, secy., treas. and mgr., Cap. stk. \$416,500. Mingo. Open pit, tunnel, 65,000 tons, steam.		
Irondale	Jefferson	Wm. Lacey, Cleveland, Ohio, 77 and 79 River st., Cap. stk. \$100,000. Lacey, sandstone and fire clay, Shaft, 18,000 tons, steam.		
Lilly	Seneca	R. H. & C. C. Cook, Cap. \$5,000. Enterprise. Slope, 6,500 tons; steam. R. H. Cook, supt.		
Logan	Hocking	Joe Bartholow, No. 6. Open pit, 10,000 tons.		
Magnolia	Carroll	Beatty Fire Clay Co., Canton, Ohio, W. M. Beatty, pres., mgr. and supt., J. J. Whitacre, secy. and treas., Cap. stk. \$10,000. Beatty. Tunnel, 8,000 tons, horse.		
Malvern	Carroll	Malvern Clay Co., John H. Wilson, pres., George H. Allen, secy., treas. and mgr., Cap. stk. \$6,500. Malvern. Slope, 20,000 tons, horse. Peter Reich, supt.		
"	"	Phoenix Fire Clay Co., C. A. Weaver, pres., R. Roberts, secy. and treas., Samuel Hodgkinson, mgr., Cap. stk. \$75,000. Phoenix. Slope, 300,000 tons; steam. John Connor, supt.		
Massillon	Stark	Massillon Stone & Fire Brick Co., Pittsburg, Pa., 333 Penn. av., R. P. Duff, pres., Wm. G. Hepp, secy. and mgr., E. A. Kilzmillen, treas., Cap. stk. \$80,000. Tunnel, 25,000 tons, steam.		
Maxville	Perry	L. M. Bett, Tunnel, hand.		
Mineral Point, Tuscarawas		C. E. Brothers (dealt). Open pit		
Mogadore	Summit	Myers & Hall, Fire clay, 5,000 tons		
McAverb's Furn., Lawrence		Campbell Iron Co., Tronton, Ohio, J. H. Moulton, pres., J. H. Campbell, secy. and treas., J. W. Camp- bell, mgr., Cap. stk. \$100,000. Mt. Vernon Furnace. Open pit, 6,000 tons, hand.		
Navyville	Stark	Akron Fire Brick Co., Akron, Ohio, 105 Bank st., C. A. Allison, pres., B. M. Allison, secy., treas. and mgr., Cap. stk. \$50,000. Navyville. Slope, 5,000 tons, hand.		
Nelsonville	Athens	Nelsonville Sewer Pipe Co., James Dow, pres. and mgr., C. H. Dean, secy. and treas., Cap. stk. \$25,000. Tunnel, 45,000 tons, steam.		
New Lisbon	Columbiana	Keystone Fire Clay Co., Fred H. Putchard, pres. and mgr., Willis Jordan, secy. and treas., Cap. stk. \$25,000. Keystone. Tunnel, 15,000 tons; horse. John Collins, supt.		
Portsmouth	Seneca	Seneca Star Fire Brick Works, E. B. Greene, pres., R. A. Mitchell, secy. and mgr., Cap. stk. \$18,000. Tunnel, 15,000 tons.		
Sandy	Tuscarawas	Edward Holden, Point Savage. Tunnel, 5,000 tons, horse. Wm. Holden, supt.		
Springfield	Summit	Akron Clay Co., Archie Markle, secy. and treas., Geo. W. Markle, mgr., Cap. stk. \$3,000. Harshberger. Open pit, steam. John Grant, supt.		
Toronto	Jefferson	John Francy's Sons Co., Cap. \$150,000. Forest City. Slope, 25,000 tons, steam		

FIRE CLAY—(CONTINUED)

TOWNS AND COUNTY.	LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT	
Toronto	Jefferson	Great Western Fire Clay Co.	Cap. \$15,000. Shaft, 24,000 tons, steam.
"	(Continued.)	Jefferson Fire Clay Co.	Cap. \$35,000. Jefferson. Shaft, 10,000 tons, steam. D. H. Kerr, supt.
Chillicothe	Tuscarawas	Diamond Fire Clay Co.	James Ball, pres.; J. M. Cooper, secy., treas. and mgt. Cap. stk. \$25,000. Tunnel, 20,000 tons, horse.
"	"	Chillicothe Fire Clay Co.	W. B. Thompson, pres.; J. J. Evans, secy. and mgt.; George Beck, treas. Cap. stk. \$50,000. Slope. Steam.
Walkers	Columbiana	N. C. Walker Clay Manufacturing Co.	N. C. Walker, pres.; treas. and mgt.; M. J. Ryan, secy. Cap. stk. \$50,000. Walker. Open pit, 15,000 tons, steam.

IRON

TOWNS AND COUNTY.	LOCATION OF MINE, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT	
Blackband	Tuscarawas	Edgway Burton Co.	Massillon, Ohio. J. P. Burton, pres. and treas.; D. Johns, secy. Cap. stk. \$80,000. Ankeny, black band ore. Tunnel, 25,000 tons, horse. Christian Maurer, supt.
Bloom Switch	Scioto	Cate Iron Co.	Portsmouth, Ohio. J. D. Cate, pres. and treas.; J. H. Cate, secy. and mgt. Cap. stk. \$10,000. Black ore. Open pit, 10,000 tons, hand, charcoal furnace, capacity 1,000 tons. J. N. Foster, supt.
Campbell	Lawrence	Campbell Iron Co.	London, Ohio. J. H. Campbell, pres.; H. H. Campbell, secy. and treas.; J. W. Campbell, mgt. and supt. Cap. stk. \$10,000. Mt. Vernon Furnace, iron ore. Open pit, 10,000 tons, hand.
Canal Dover	Tuscarawas	Penn. Iron & Coal Co.	J. P. Burton, pres.; H. S. Ream, secy.; S. W. Croxton, treas. and mgt. Cap. stk. \$20,000. Badler, black band ore. Slope, open pit, 15,000 tons, horse, hand, furnace. George Beck, supt.
Fairfield	Tuscarawas	G. A. Koltha	Cap. \$5,000. Black band ore. Tunnel, 200 tons, hand.
Hanging Rock	Lawrence	Means, Kyle & Co.	F. B. Wilford, pres.; James Ball, secy. and treas. Cap. \$50,000. Pine Grove, carbonate iron ore. Open pit, tunnel, 25,000 tons, hand, charcoal furnace. A. R. Mackintosh, supt.
McAvern's Furn	Lawrence	Campbell Iron Co.	London, Ohio. J. H. Campbell, pres.; H. H. Campbell, secy. and treas.; J. W. Campbell, mgt. Cap. stk. \$10,000. Mount Vernon Furnace, iron ore. 10,000 tons, hand.
New Philadelphia	Tuscarawas	George A. Koltha	Cap. \$8,000. Black band ore. Tunnel, 200 tons, hand.
Oliver Furnace	Lawrence	McGuzen & Co.	Oliver Furnace, furnace. Tunnel, 10,000 tons, charcoal furnace.
Post Boy	Tuscarawas	Black Band Iron Co.	Marionetta, Ohio. A. J. Warner, pres.; Geo. H. Jones, secy. Cap. stk. \$100,000. Post Boy, black band ore. Tunnel, 10,000 tons, horse. A. J. Ostine, supt.
"	"	Morris & Howell's Canal Dover	Ohio. Cap. stk. \$1,000. Camp Morris, black band ore. Tunnel, 25,000 tons, horse. William Morris, supt.
Radelin	Vinton	D. H. Pearce	Tren ore. Tunnel, open pit, 5,000 tons, hand. L. Atbough, supt.

SALT

TOWNS AND COUNTY.	LOCATION OF MINE OR WELL, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT	
Pomeroy	Meigs	Rockaway Salt Co.	George McGargle, pres.; A. D. Brown, secy. and mgt. Cap. stk. \$65,000. Common, fine, dairy. 75,000 brls., steam.
"	"	Coal Ridge Salt Co.	M. B. Wells, pres.; John M. Davis, secy. and treas.; J. W. Thomas, mgt. Cap. stk. \$25,000. Coal Ridge. 50,000 brls., steam.
"	"	Ebersbach, Schaefer & Co.	Cap. \$20,000. Pomeroy. Common, fine, dairy. Wells, 60,000 brls., steam.
"	"	Excelsior Salt Works	R. Koedler, prop. Cap. \$3,000. Excelsior. Dairy, common, fine. 4 wells, 11,000 tons, horse.
"	"	John J. Ambler	Cap. \$10,000. White Rock. Common, fine. Artesian wells, 50,000 brls., steam.
Symmes	Meigs	Symmes Coal & Salt Co.	Ralph Cheney, pres.; P. W. Robbins, secy. and treas.; T. H. Rodeman, mgt. Cap. stk. \$10,000. Symmes. Common, fine, dairy. Shaft, 20 ft., 12,500 brls., steam, horse. Adam Duckworth, supt.

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Akron	Summit	Ry.	J. Hugill, 114 South College st.	Cap. stk. \$200,000. Sandstone. Open pit, 4,800 tons; horse.
Amherst	Lorain	Ry.	Ohio Stone Co., Cleveland, Ohio, 204 Superior st. J. M. Hughes, pres.; L. P. Haldeman, v.-pres. and secy.; C. C. Caskey, treas.; D. D. Haldeman, mgr.	Cap. stk. \$200,000. Sandstone. Open pit, 14,000 tons; steam mill.
Amity	Montgomery	Ry.	A. J. Shaffer (local).	Limestone. Hand; mill.
Barr's Mills	Tuscarawas	Ry.	Kitzmiller Stone Co., Canton, Ohio, 18 W. Eighth st. John W. Gabriel, pres.; secy. and treas.; H. A. Kitzmiller, mgr.	Cap. stk. \$22,500. Kitzmiller, sandstone. Open pit, 18,000 tons; steam mill. John Saunders, supt.
Berea	Cuyahoga	Ry.	Cleveland Stone Co., Cleveland, Ohio, Wilshire Bldg. J. M. Worthington, pres.; Geo. H. Worthington, secy. and treas.	Cap. stk. \$2,250,000. Berea, sandstone. Open pit, 42,000 tons; steam mill. James Nicholl, gen. supt.
Berlin Heights	Erie	Ry.	G. A. Baillie.	Sandstone. Slope, 16,000 tons; steam.
Bluestone	Cuyahoga	Via Cleveland	Maxwell Roll & Co., Cleveland, Ohio, 5 Euclid av.	Cap. stk. \$20,000. Bluestone. Open pit, 100,000 tons; steam mill.
Burlington	Allen	Ry.	Siddall & Townsend.	Limestone. Open pit, 45,000 tons; steam, limekiln, capacity 2,400 tons.
Bowling Green	Wood	Ry.	Murphy & Mercer.	Cap. stk. \$3,000. Limestone. 20,000 tons; steam mill. George E. Mercer, supt.
Briggs	Washington	Ry.	D. B. Calder.	Cap. \$2,000. Constitution, sandstone. 200 tons; steam
"	"	"	F. W. Knowles (local).	Grindstones. 200 tons; hand; mill.
Brookfield	Trumbull	Ry.	Hamilton & Danley Stone Co.	Cap. stk. \$8,000. Whittaker, sandstone. Open pit, 2,000 tons; steam; mill.
Brownhelm	Lorain	Ry.	Cleveland Stone Co., Cleveland, Ohio, Wilshire Bldg. J. M. Worthington, pres.; George H. Worthington, secy. and treas.	Cap. stk. \$2,250,000. Brownhelm, sandstone. Open pit, 42,000 tons; steam; mill. James Nicholl, gen. supt.
Buena Vista	Scioto	Ry.	Buena Vista Freestone Co., Adolph Cadm, pres.; W. L. Cadm, secy.	Cap. stk. \$50,000. Buena Vista, freestone. Open pit, 20,000 tons; steam; mill. Adolph Cadm, supt.
"	"	"	John Miller & Sons.	Cap. stk. \$25,000. Buena Vista, freestone. Open pit, 5,000 tons; steam.
Campbell	Lawrence	Ry.	Campbell Iron Co., Ironton, Ohio. J. H. Maillon, pres.; H. H. Campbell, secy. and treas.; J. W. Campbell, mgr. and supt.	Cap. stk. \$100,000. Mt. Vernon Furnace, limestone. Open pit, 20,000 tons; hand.
Carthage	Hamilton	Ry.	F. E. Wehe (local).	Cap. \$2,000. Limestone. Open pit, 55 tons; hand.
Centerville	Montgomery	Ry.	James Maurel.	Sandstone. 1,000 tons.
Clarkfield	Huron	Ry.	Furlong Stone Co., Cap. stk. \$100,000. Furlong quarry.	sandstone. Open pit, steam and horse, mill. Daniel Malloy, supt.
Cold Springs	Clarke	Ry.	Moores & Co.	Limestone. Slope, steam. W. H. Kennedy, supt.
Columbia Station	Lorain	Ry.	Cleveland Stone Co., Cleveland, Ohio, Wilshire Bldg. J. M. Worthington, pres.; George H. Worthington, secy. and treas.	Cap. stk. \$2,250,000. Columbia, sandstone. Open pit, 42,000 tons; steam, mill. James Nicholl, gen. supt.
Constitution	Washington	Ry.	Constitution Stone Co., M. J. O'Connor, pres. and treas.; Thomas Cleary, secy. and supt.	Sandstone 2,000 tons; steam, mill.
Columbiana	Miami	Ry.	J. W. Ruhl.	Cap. \$20,000. Rocky Branch, limestone. Open pit, 18,000 tons; steam; mill, limekilns capacity 2,625 tons. J. R. Rensch, supt.
Edinburg	Portage	Ry.	W. B. Davis.	Red sandstone. Open pit, hand.
Fired	Scioto	Ry.	W. E. Marsh & Co.	Limestone. Open pit, 30,000 tons; hand. W. E. Marsh, supt.
Ellsworth	Mahoning	Ry.	M. J. Barnes.	Cap. \$8,000. Sandstone, limestone. Open pit, hand.
Elvira	Lorain	Ry.	George F. Bryant, 13 W. Third st.	Cap. \$100,000. Sandstone. Open pit, 80 tons; steam; mill.
"	"	"	H. L. Mussey & Co.	Mussey, sandstone. Open pit, steam.
Forest Dale	Lawrence	Ry.	Edward Adams.	Limestone. Open pit, 50,000 tons; hand.
Fosteria	Seneca	Ry.	D. P. Lloyd Co.	Cap. \$40,000. Limestone. Open pit, 15,000 tons; steam, limekiln, capacity 9,000 tons.
Fremont	Sandusky	Ry.	Gottfroid Bros.	Limestone. Open pit, 6,400 tons; steam, hand, limekiln, capacity 9,000 lbs.
Fulton	Morrow	Ry.	J. B. Ruchart.	Cap. \$2,000. Fulton, sandstone. Open pit, 14,000 tons; steam. B. J. Lyons, supt.

STONE, MARBLE, GRANITE AND ONYX (CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERILLS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	COUNTY.		
Fultonham Ry. 182	Muskingum	Hoover Bros., Fultonham, lime stone. Open pit, 10,000 tons, steam, trucking.	
Grafton Ry. 170, 171.	Lorain	Elyria Stone Co., Elyria, Ohio. H. F. Corning, pres't., W. L. Fay, secy., treas. and mgr. Cap. stk. \$165,000. Elyria sandstone. Open pit, 25,000 tons, steam, mill. Charles F. Peabody, supt.	
"	"	Grafton Stone Co., F. S. Flint, pres't. W. S. Miller, secy., Col. S. Bliss, treas., W. E. Miller, v. pres't. and mgr. Sandstone, 80,000 tons. Cap. stk. \$120,000, steam, mill.	
Greenfield P. O. Steubenville Ry. 42, 545.	Huron	Cot & Graham, Steubenville, sandstone. Open pit, 500 tons, hand.	
Hanging Rock Ry. 545.	Lawrence	Meggs, Kyles & Co., E. B. Willard, pres't. and mgr., James Bull, secy. and treas. Cap. stk. \$500,000. Junior Hydraulic sandstone. Hand, developing.	
Independence Ry. 778.	Cuyahoga	J. Bender & Sons, Smiths, sandstone. Open pit, 300 tons, horse.	
"	"	Little & Pettibone, Cleveland, Ohio, 5 Euclid av. Independence, freestone. Mill.	
"	"	Ohio Stone Co., Cleveland, Ohio, 204 Superior st., J. M. Hughes, pres't., E. F. Haldeman, v. pres't. and secy., J. C. Caskey, treas., O. D. Hartman, mgr. Cap. stk. \$200,000. Sandstone. Open pit, 13,000 tons, steam, mill.	
Killbuck Ry. 169.	Holmes	Killbuck Brown Stone Co., Chas. F. Duer, secy., Z. L. Duer, treas. and mgr. Killbuck, sandstone. Open pit, electricity, horse, hand, mill. Etnos Schellbott, supt.	
La Grange Ry. 159.	Lorain	Cleveland Stone Co., Cleveland, Ohio, W. L. Ritz, J. M. Worthington, pres't., George H. Worthington, secy. and treas. Cap. stk. \$225,000. La Grange, sandstone. Open pit, 12,000 tons, steam, mill. Jas. Nichol, gen. supt.	
Lancaster Ry. 164, 181	Fairfield	E. C. Noye, Cap. \$20,000. V. Gheeny, sandstone. 75,000 tons, steam, horse. Wm. Strachan, supt.	
Lane City Ry. 599.	Wood	Lane City Co., J. H. Sawyer, pres't., J. P. Reims, secy. and treas., C. S. Breed, mgr. Cap. stk. \$50,000. Lane City, limestone. Open pit, 60,000 tons, steam, trucking. J. H. Helfferich, supt.	
"	"	Michigan Stone & Supply Co., Detroit, Mich., 10 W. Fort st., Geo. F. Smith, pres't. and mgr., Cameron O. Lutz, secy. and treas. Cap. stk. \$100,000. B. H. Mestard, gen. supt., limestone. Open pit, 50,000 tons, steam.	
Lanes Ry. 585	Richland	Richland Stone Co., Marsh 3d, Ohio, Sayre & Burt, Pres't. H. C. Post, pres't. J. H. Zinthorst, secy., Geo. F. St. John, treas. Chas. W. French, mgr. Cap. stk. \$50,000. Lanes, sandstone, soap and steam.	
Lakemans Ry. 582	Crawford	A. J. Brown, limestone, open pit, steam.	
McArthur Ry. 181.	Antion	J. H. P. Fisher, 500 ft. P. Fisher, limestone. Open pit, hand.	
McDonville Ry. 42	Belmont	Joseph McClain & Son, Belmont, Ohio, 112 E. Broadway, Joseph McClain, pres't. and mgr., Wm. G. McClain, secy. and treas. Cap. stk. \$100,000. McClain, sandstone. Open pit, 20,000 tons, steam. Henry Hall, supt.	
Marble Cliff Ry. 584	Franklin	L. J. Price & Co., Columbus, Ohio, 72 N. 3d st., Mar. Co. Co., limestone. Open pit, 10,000 tons, steam, trucking, capacity, 50,000 tons. J. L. Price, supt.	
Marblehead Ry. 584	Ottawa	Kemp & Johnson, Sandusky, Ohio, Water st., Cap. \$5,000. Limestone. Open pit, 10,000 tons, hand, trucking, capacity 100,000 tons. John Burton, supt.	
"	"	Stoss Marblehead Limestone Co., S. Stoss, pres't. and treas. J. A. Vanderveer, mgr. Stoss Marblehead, limestone. Open pit.	
Massillon Ry. 171, 585, 586.	Stark	Voigt Stone Co., Wm. H. Voigt, pres't. Wm. M. Mann, v. pres't. and treas. J. E. Voigt, mgr. and supt. Cap. stk. \$8,500. Sandstone. Open pit, 150,000 tons, steam, mill.	
"	"	Warthorn & Co., Sandstone, sand.	
McVernardum Lawrence P. O. Campbell ² , Ry. 179	Campbell ²	Campbell ² Iron Co., Trenton, Ohio. J. H. Morton, pres't., H. H. Campbell, secy. and treas. J. W. Campbell, mgr. Cap. stk. \$290,000. McVernardum, limestone. Open pit, 12,000 tons, hand.	
Newark Ry. 42, 584	Licking	George Hayens, Newark, freestone. Open pit, 2,000 tons, hand.	
New Lisbon Ry. 505, 586.	Columbiana	John H. O. Malt, Cap. \$200. Limestone. Open pit, 4,000 tons, hand.	
Newport P. O. name Wilson Ry. 165.	Adams	Highland Stone Co., Norcross, Ohio. F. J. McFarlin, pres't. and secy., John W. Felt, secy., mgr. and supt. Cap. stk. \$200. Limestone. Open pit, 150,000 tons, mill.	
"	"	L. & F. Tietjen, Cincinnati, Ohio, 550 W. 1st st., Cap. stk. \$10,000. Shiner, limestone. Open pit, 500 tons, hand. F. Tietjen, supt.	
North Amherst Ry. 585.	Lorain	Cleveland Stone Co., Cleveland, Ohio, W. L. Ritz, J. M. Worthington, pres't., George H. Worthington, secy. and treas. Cap. stk. \$225,000. North Amherst, sandstone. Open pit, 12,000 tons, steam, mill. James Nichol, gen. supt.	
Olmsted Falls Ry. 585.	Cuyahoga	Cleveland Stone Co., Cleveland, Ohio, W. L. Ritz, J. M. Worthington, pres't., George H. Worthington, secy. and treas. Cap. stk. \$225,000. Olmsted Falls, sandstone. Open pit, 12,000 tons, steam, mill. James Nichol, gen. supt.	
Orway Ry. 165	Seneca	W. B. Smith & Sons, Fremont, sandstone. Open pit, 60,000 tons, steam, horse, hand. F. C. Smith, O. F. Smith and James Barker, supts.	
Owens Ry. 181.	Milton	D. Owens & Son, Owens, limestone, sandstone. 2,500 tons, steam, trucking. Cap. \$2,000 tons. Daniel Owens, supt.	
Pennsylvania Ry. 778.	Summit	Cleveland Stone Co., Cleveland, Ohio, W. L. Ritz, J. M. Worthington, pres't., George H. Worthington, secy. and treas. Cap. stk. \$225,000. Pennsylvania, sandstone. Open pit, 12,000 tons, steam, mill. James Nichol, gen. supt.	

STONE, MARBLE, GRANITE AND ONYX—(CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINTS.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	COUNTY.		
Peninsula (Continued.)	Summit	Ohio Stone Co., Cleveland, Ohio, 234 Superior st., J. M. Hughes, pres.; L. P. Haldeman, v.-pres., and secy.; C. C. Caskey, treas.; D. D. Haldeman, mgr., Cap. stk. \$200,000. Sandstone. Open pit, 14,500 tons; steam, mill.	
Plymouth Ry. 42, 582.	Richland	Plymouth Stone Co., D. L. Critten, pres.; Jacob Wallace, secy. and treas.; C. H. Whittier, mgr. and supt., Cap. stk. \$5,000. Sandstone. Open pit, steam, horse.	
Point Pleasant Ry. 533.	Clermont	Gallbreath & Bushman. Cap. \$3,000. Limestone. Open pit, 6,000 tons; horse, hand.	
"	"	Point Pleasant Stone Quarry. Limestone. Open pit, 750 tons; hand. George F. Knubb, supt.	
Ridgeville (P. O. Bement) Shawville 583.	Lorain Ry.	Dallas Beche. Cap. \$3,000. Beche, sandstone. Open pit, 75,000 tons; horse, hand.	
Rockbridge Ry. 181.	Hocking	Detroit & Hocking Valley Red & Brown Stone Co., Detroit, Mich., 55 Champlain st., Joseph S. Visger, pres.; Richard J. Shuchat, secy.; G. Chirra, treas.; Charles C. Canny, mgr.; Cap. stk. \$100,000. Hocking Valley, sandstone. Open pit, 15,000 tons; steam. H. A. Flowers, supt.	
St. James Ry. 170.	Morrow	Buckeye Stone Co., J. J. McClarren, pres.; A. W. Monroe, secy. and treas.; J. H. McClarren, mgr. and supt., Cap. stk. \$20,000. Buckeye, sandstone. Open pit, 15,000 tons; steam.	
Silverton Ry. 158.	Hamilton	J. K. Galloway. Limestone. Open pit.	
Springfield Ry. 170, 503, 535, 584.	Clarke	Wm. K. Duke, 97 W. Mulberry st., Mill Creek, limestone. Open pit, hand; mill.	
"	"	Mills Bros., 107 S. Limestone st., Cap. stk. \$10,000. Limestone. Open pit, 25,000 tons; steam and hand, mill, kiln, 5,000 tons. Henry Hoss, supt.	
Stony Ridge Ry. 765.	Wood	Luckey Stone Co., Elmore, Ohio, J. B. Luckey, proprietor. Luckey, limestone. Open pit, 40,000 tons; steam, mill.	
Sugar Grove Ry. 181.	Fairfield	R. L. Sharp Stone Co. Sandstone. Open pit, hand, horse.	
"	"	Wm. Sharp. Buckeye. Open pit, 2,000 tons; hand.	
Sulphur Grove Ry. Dayton 156, 170, 267, 503, 584.	Montgomery	D. P. Oram. Limestone. Open pit, 1,000 tons; hand.	
Sunbury, Ry. 169.	Delaware	Sunbury Stone Co., William Bunyan, pres.; Edward T. Bunyan, secy. and mgr. Cap. stk. \$25,000. Sunbury. Open pit, 4,800 tons; steam, mill. John Hunter, supt.	
Thompson Ry. Madison 383, 502.	Geauga	Chrys Solley. Cap. \$2,000. Sandstone. 20,000 tons; horse and hand, mill.	
Tiffin Ry. 42, 170, 530.	Seneca	J. Poling. Cap. \$3,000. Limestone. Open, hand.	
Venue Ry. 765.	Washington	Hayes Bros. Cap. \$15,000. Sandstone. Open pit, 1,000 tons; steam; mill.	
Wakeman Ry. 388.	Union	Cleveland Stone Co., Cleveland, Ohio, Wolshire Bldg., J. M. Worthington, pres.; George H. Worthington, secy. and treas.; Cap. stk. \$2,500,000. Wakeman, sandstone. Open pit, 42,000 tons; steam, mill. Jas. Nicholl, gen. supt.	
Wayverly Ry. 529, 535.	Pike	Wayverly Stone Co., W. S. Jones, pres.; J. W. Logan, secy. and treas.; R. E. Sharpe, mgr. and supt., Cap. stk. \$5,000. Sandstone. Open pit, 24,000 tons; steam, horse, hand, mill. R. E. Sharpe, supt.	
West View, Ry. 170	Cuyahoga	Cleveland Stone Co., Cleveland, Ohio, Wolshire Bldg., J. M. Worthington, pres.; George H. Worthington, secy. and treas.; Cap. stk. \$2,500,000. West View, sandstone. Open pit, 42,000 tons; steam, mill. Jas. Nicholl, gen. supt.	
Whitehouse, Ry. 784	Lucas	J. L. Pray & Son. Cap. stk. \$5,000. Sandstone. Open pit, 10,000 tons; hand, mill. J. E. Pray, supt.	
Youngstown Ry. 382, 503, 503, 591	Mahoning	Youngstown Stone Co., R. T. Walker, pres.; F. P. Hood, secy.; Wm. Cornelius, treas.; George W. Campbell, mgr. Cap. stk. \$5,000. Youngstown, sandstone. Open pit, steam, sand mill.	
Zanesville Ry. 42, 164, 170	Muskingum	E. M. Ayers, 108 Main st., Cap. \$10,000. Dillon Falls, sandstone. Open pit, 10,000 tons; steam. Harry Lucas, supt.	
"	"	A. Emery. Cap. \$10,000. Putnam, sandstone. Slope, 7,000 tons; hand.	
"	"	John W. King, 15 N. Fourth st., Kings, fire clay, sandstone. Open pit, 3,000 tons. George Smith, supt.	
"	"	Philip Mowbray locally, 33 Elm st., Cap. \$1,500. Mowbray, limestone. Open pit, 20,000 tons; hand. Lamekin, 6,000 tons capacity.	

SEE ALSO SUPPLEMENTARY LIST

OREGON

COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, LUBRICANTS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Gold Beach		Curry	N. Huntley.	Black Diamond. Open pit, 10 tons, retortatory, hand.
Ry. 552.				

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Applegate		Jackson	John T. Layton.	Cap. \$30,000. Little Gold, gold. Placer, hydraulic.
Ry. Jacksonville				
776				
17 miles.				
Ashland		Jackson	Ashland Mining Co., Portland, Ore.	100 Stark st. P. Kelly, pres.; H. L. Coffin, secy. and treas. Cap. \$50,000. Patton and A. N. King, gold and silver. Shaft and tunnel, free. Joseph A. Wilson, supt.
Ry. 692.				
Auburn		Baker	Jas. L. Wells.	Gold. Shaft, horse.
Ry. Baker City				
776				
Baker City		Baker	Basley Elkhorn Mining Co., Portland, Ore.	100 First st. F. W. Nelson, pres.; ingt. and supt. S. J. Rabel, secy. Cap. \$100,000. Elkhorn, gold and silver. Shafts, 10 levels and levels, 20,000 tons, free and retortatory, steam. Bryan and Hurlington mills.
Ry. 776.				
"		"	Baker City Gold & Silver Mining Co., Elston, Idaho.	100 First st. A. B. Tamm, secy. A. H. Lott, treas. Cap. \$100,000. Monumental and Light Square, gold and silver. Shaft and tunnel, free, developing.
"		"	Elkhorn Gold Mining Co., Portland, Ore.	100 First st. F. W. Nelson, pres.; ingt. and supt. S. J. Rabel, secy. North Western Loan & Trust Co., Treas. F. C. Nelson, ingt. and supt. Cap. \$100,000. Gold Medal and Gold Eagle, gold and silver. Shafts, 10 levels and levels, 20,000 tons, free and retortatory, steam, mill.
"		"	Elkhorn Mining Co., Portland, Ore.	100 First st. J. H. Robbins, pres.; ingt. and supt. W. L. Harmon, secy. L. G. Davidson, treas. Cap. \$100,000. Elkhorn, gold and silver. Tunnel, free and retortatory, water, mill.
12 miles.		"	Futoka & Excelsior Consolidated Mining Co., St. Louis, Mo.	700 Third Bldg. R. C. Kenes, pres.; C. H. Smith, secy. C. M. Donaldson, ingt. and supt. Cap. \$100,000. Futoka and Excelsior, gold and silver. Tunnel, retortatory, steam. 20 stamps.
37 miles.		"	Geiser Estate, Albert Geiser, ingt.	Bonanza, gold. Tunnel, 7,500 tons, free. Steam, 10 stamps.
5 miles.		"	Hodgins & Rohrer.	G. R. Hodgins, pres. and ingt. John Rohrer, secy. P. R. Bestup, treas. and supt. Cap. \$100,000. Cow Boy, gold and silver. Tunnel, free, developing.
"		"	Jones & Carpenter.	Cap. \$20,000. Never Sweat, gold. Placer, also hydraulic and water. Moses Carpenter, supt.
"		"	Robinson Gold Mining Co.	Geo. W. Robinson, pres. and secy. D. W. C. Nelson, ingt. and supt. Cap. \$100,000. North Star, gold. Tunnel, 1,000 tons, retortatory.
"		"	Robinson Mining Co.	S. Offenberg, pres.; J. F. Warner, secy. D. W. C. Nelson, treas., ingt. and supt. Cap. \$100,000. Robinson, gold. Tunnel, retortatory, developing.
10 miles.		"	Snowstorm Consolidated Gold Mining Co., Redford, Indiana.	Thomas A. Thornton, pres.; Edmund B. Thornton, secy. and treas.; J. F. MacLean, ingt. and supt. Cap. \$100,000. Snowstorm, Golden, Charlot, Thornton, Windsor, L. V. White, St. V. ans. and Futoka, gold. Slope and shaft, 20,000 tons, horse, water, 10 stamps.
"		"	Washington Gold Mining Co., Portland, Ore.	754 Oak st. S. M. Keenan, pres.; A. J. Keenan, secy. and treas.; Wm. Dummer, ingt. and supt. Cap. \$100,000. Washington, gold. Placer, hydraulic.
Bolt		Jackson	Alexander Ormer.	Brother, gold. Placer, water.
Ry. Woodville				
692.				
Bridgport		Baker	Burnt River Mining Co.	Archie J. Murray, pres.; Wm. C. Gray, secy.; J. H. Murray, treas. P. Gray, ingt. and supt. Cap. \$100,000. Clock and Bar, gold. Placer, hydraulic.
Ry. Baker City				
776				
20 mi.		"	Henry Heiss.	Blue Bar, gold. Tunnel, placer.
"		"	Fagle Mining Co.	J. T. Colbath, pres.; W. S. Crum, secy. and treas.; John C. Aycock, ingt. and supt. Cap. \$100,000. Fagle Group, gold and silver. Shafts and tunnels, 10 levels, free and retortatory.
Cable Cove		Baker		
P. O. Baker City				
Ry. McWen				
776				
16 mi.				
Calish		Grant	Owens, Frieson & Liswell.	Spanish Gopher, gold. Placer, hydraulic.
Ry. The Dalles				
776.				
Canyon City		Grant	Hugh Cannon.	Gold. Placer, water, hydraulic.
Ry. Baker City				
776				
75 mi.		"	Clark & Robison.	Last Chance, gold. Placer, hydraulic.
"		"	William Halin.	Quartz Gosh, gold. Placer, hydraulic.
"		"	Humboldt Mining Association.	H. W. Soren, ingt. Cap. \$100,000. Humboldt, gold. Placer, hydraulic.
"		"	J. A. Whitman.	Cap. \$10,000. Whitmans, gold. Placer, hydraulic.
Canyonville		Douglas	Asb & McWhithers.	Cap. \$15,000. M. W. Parsons, Cash, gold. Placer, hydraulic.
Ry. Riddle				
692.				

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY,		
Canyonville	Douglas	D. J. Rottenbough.	Pickum, gold. Placer; hydraulic, water.	
(Continued.)				
"	"	Last Chance Mining Co.	Last Chance, gold, silver and copper. Tunnel, free; water. E. L. Goodridge, supt.	
"	"	D. A. Levons.	Douglas, gold. Shaft and tunnel; free; water.	
"	"	James Yokum.	Cap. \$500. Gold. Placer, hydraulic (developing).	
Connor Creek Ry. Huntington 776 (20 miles.)	Baker	Connor Creek Mining & Milling Co., Portland, Ore., Abington Bldg.	S. G. Reed, pres.; Martin Wynch, secy. and treas.; J. Myrick, mgr. and supt. Cap. stks. \$1,000,000. Connor Creek, gold. Tunnel, 16,000 tons, free, water, 35 stamps.	
"	"	Dunning & Thomas.	Cap. stks. \$2,000. Albatross, gold. Open pit, placer; water.	
Cornucopia Ry. Union 756 (40 m.)	Union	Companion Mining Co.	Gold and Silver. Shaft and tunnel, free and refractory; steam; 5 stamps. E. P. Torrey, supt.	
"	"	Last Chance Mining Co.	Last Chance, gold. Tunnels; free and refractory (developing).	
"	"	New Discovery Mining Co.	New Discovery, gold and silver. Tunnels; free and refractory (developing). R. Kelly, supt.	
"	"	Norway Mining Co.	Cap. stks. \$6,000. Norway, gold. Tunnel, 3,000 tons; free and refractory; water; Huntington mill. Geo. Lindgreen, supt.	
"	"	Nyanza Mining Co.	Nyanza, silver. Shaft, free and refractory (developing). Robert Kelly, supt.	
"	"	Oregon Gold Mining Co., Louisville, Ky., 514 W. Main st.	Geo. H. Dietz, pres.; H. W. Bohmer, secy.; A. L. Schmidt, treas.; O. E. Steen, mgr. Cap. stks. \$200,000. Red Jacket and Whitman, gold and silver. Tunnel, 10,000 tons; free and refractory. Steam and water, 20 stamps. J. H. Wilson, supt.	
"	"	Queen of the West Mining Co., gold.	Shafts and inclines; free; hand (developing). Robert Kelly, supt.	
"	"	Stella Mining Co., Stella, gold and silver.	Tunnel, free and refractory (developing). W. S. Wilson, supt.	
"	"	Union Mining Co., Astoria, Tree & Burdett, props.	Union, gold and silver. Tunnel; free and refractory (developing).	
Engene P. O. and Ry. Myrtle Creek 692.	Douglas	Myrtle Creek Hydraulic Gold Mining & Manufacturing Co., Engene, Ore.	L. W. Brown, pres.; mgr. and supt. J. F. Robinson, secy.; T. G. Hendricks, treas. Cap. stks. \$20,000. Myrtle Creek, gold. Placer, hydraulic.	
Glenade Ry. 692.	Douglas	J. T. C. Nash.	Nash, gold. Placer, hydraulic, water.	
Granite Ry. Baker City 776 (35 m.)	Grant	Baisley & Klopp.	Cap. stks. \$10,000. Baisley & Klopp, gold. Placer, deep, hydraulic, water. Isaac Klopp, supt.	
"	"	Fairview Opifer Mining Co., Pendleton, Ore., Calvin cor. W. R. R. st.	Peter Parmentier, pres.; R. R. Dixon, secy.; David Horn, treas.; Frank Dupret, mgr. and supt. Cap. stks. \$150,000. Encouragement, gold, silver, copper and lead. Shaft, hand and horse, mill, 40 stamps.	
"	"	Granite & Greenhorn Milling and Mining Co., A. G. Faber, pres.; C. S. Miller, secy., mgr. and supt.	Cap. stks. \$1,250,000. Monumental and Morris Consolidated, silver. Shafts and tunnels, refractory; steam, 20 stamps.	
"	"	Grant Silver Mining Co., Portland, Ore., cor. Front S. st.	Geo. W. Weidner, pres.; Thomas Gray, secy. and treas.; J. C. Powers, mgr. and supt. Cap. stks. \$100,000. Intrinsic and others, gold and silver. Shafts and tunnel, refractory. Steam.	
"	"	G. H. Gutridge & Co., G. H. Gutridge, pres.; Harry Mack, secy.; M. Thornburg, treas.; E. E. Thornburg, mgr.	Cap. stks. \$5,000. Camp Mason, gold. Placer, water. A. J. Dickson, supt.	
Grants Pass Ry. 692	Josephine	T. J. & J. T. Clark.	Cap. \$120,000. Quartz Boulder, gold. Placer, hydraulic. T. J. Clark, supt.	
"	"	Rogue River Mining & Developing Co., J. T. Flynn, pres.; A. C. Taylor, secy. and supt.; Robert G. Smith, treas.	Cap. stks. \$100,000. Conductor and Gray Mule, gold. Tunnel and shafts, 1,000 tons; free and refractory; steam, 10 stamps.	
Greenhorn P. O. Astoria Ry. Me- Even 776 (40 miles.)	Grant	C. G. Nelson, Astoria, Ore.	Greenhorn, gold. Placer, water.	
Harney Ry. 776.	Harney	Robert Drinkwater.	Gold. Placer, water (developing).	
Idol Ry. Harney 776 (30 m.)	Harney	Brunet & Gilham, Main st.	Cap. \$1,500. Big Boulder, gold and silver. Shaft, free, hand.	
"	"	Heath & Roberts, Harney City, Ore.	E. A. Heath, pres.; John F. Roberts, secy. and treas.; D. A. Cawh- held, mgr. and supt. Cap. stks. \$80,000. General Heath, gold. Placer, hand.	
"	"	J. A. J. E. & J. H. Logan.	Cap. \$12,000. Gold. Placer (developing).	
"	"	Beam, Black & Kitching, Portland, Ore., 151 Seventh st.	C. R. Black, mgr.; J. H. Kitching, gold and silver. Refractory. E. H. Beam, supt.	
"	"	Samuel Beach.	Cap. \$1,000. Gold. Open pit, placer.	
Jacksonville Ry. 692	Jackson	Jacksonville Mining & Milling Co., Jeremiah Numan, pres.; S. J. Day, secy.; Thomas J. Kenney, treas.; D. A. Goodenough, mgr. Cap. stks. \$50,000. Jacksonville, gold. Tunnel; free and refractory; hand (developing). Henry Kippes, supt.		
Joseph Ry. Elgin 776	Washington	Royal Purple Mining Co., T. J. Deam, pres.; mgr. and supt.; F. M. Deam, secy.; J. F. Cutler, treas.	Cap. stks. \$100,000. Royal Purple, silver and copper. Tunnel, free and refractory, water, concentrator, crusher and turnage, 5 stamps.	
La Grande Ry. 776.	Union	Chloride Mining & Milling Co., Portland, Ore., 31 Stark st.	F. W. Baine, pres.; M. D. Wisdom, secy.; R. L. Dornham, treas.; J. K. Remig, mgr. Cap. stks. \$50,000. Chloride, gold and silver. Tunnel, 350 tons, free, water. J. J. Taylor, supt.	
Leland Ry. 692	Josephine	Alta Ditch Co., Grants Pass, Ore.	L. C. Windom, pres.; J. W. Sherer, secy. and treas.; John A. Niday, mgr. and supt. Cap. stks. \$3,000. Gold. Placer.	

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	COUNTY.		
Leland	Josephine	L. N. Browning	Browning, gold. Placer.
<i>(Continued.)</i>			
Mathur	Mathur	Samuel & Hiram Colt	Cap. \$10,000. Tip Top, Humboldt and Aubocrat, gold. Shaft, tunnel and slope, 500 tons, free, steam, 2 stamps.
Prairie City	Grant	W. E. Garford	Present Need, gold and silver. Shaft and tunnel, 60 tons, free and refractory, steam.
Ry, Baker City 756-07			
"	"	Geo. E. Robinson & Co.	Colorado, gold. Tunnel, 3,700 tons, refractory, steam, 5 stamps. Geo. E. Robinson, supt.
Riddles	Douglas	Canyonville Mining, Water & Manufacturing Co.	Eugene, Ore. F. C. Smith, pres.; Hon. A. C. Wood- cock, secy. Cap. \$18,000. Canyon No. 2, gold. Placer, hydraulic, developing.
"	"	S. S. Catching	Cap. \$500. Gold. Placer.
"	"	John Hudson	Cap. \$500. Gold. Open pit, water, developing.
Rock creek	Baker	Robinson Mining Co.	Geo. W. Robinson, pres.; D. W. C. Nelson, secy. and treas.; F. C. Smith, mgr. and supt. Cap. \$10,000. North Star, gold. Tunnel, 100 tons, free and refractory, steam and water, mill.
Rye Valley	Baker	Cartwright Bros.	deposits. Rye Valley, gold. Placer.
Ry, Weatherby 756-015			
"	"	H. B. Francis	Silver Blue and Extensions, gold and silver. Tunnel, free, hand and astrate.
"	"	John Erison	Bonanza, gold. Placer, hydraulic.
Sanger	Union	C. T. Bradley Mining Co., Daggett, Cal.	C. M. Sanger, pres.; A. F. Sanger, secy.; C. T. Bradley, treas., Cap. \$18,000. Summit, gold and silver. Shaft, 100 tons, free, steam, 10 stamps. W. J. Townley, supt.
"	"	Sturgill Bros.	Baker City, Oregon. Bonanza, gold. Shaft, refractory, horse.
Saturne Creek	Jackson	N. & C. Ritter	Lucky Hill, gold. Tunnel, free, horse and hand, astrate. N. Ritter, supt.
P. O. Rock Point Ry, Gold Hill 692,			
Spanish Gulch	Grant	Mule Gulch Mining Co.	W. W. Cowen, pres. and mgr.; R. V. Cowen, secy.; W. B. Cowen, treas.; Cap. \$18,000. Mule Gulch, gold. Placer, hydraulic. F. S. Cowen, supt.
P. O. Caple Ry, The Dalles 756,			
Sparta	Union	F. H. Boyer	Waterfall, Wash. Bowls, gold. Placer, hydraulic. Tiboro, Whitey, supt.
Ry, Baker City 756,			
"	"	Eastern Oregon Gold Mining Co.	Delmont, Mich. Geo. W. Beckman, pres.; Geo. H. Hallgren, secy. and treas.; Cap. \$18,000. Little Arrow, gold. Shaft and tunnel, 200 tons, free, hand, F. C. Smith, supt.
"	"	Jay Gay Lewis	Silver Queen and Lexington, gold. Shafts, free, 200 tons, free and refractory, horse,
"	"	Oro Bell Mining & Mining Co., Chicago, Ill.	200 tons, free and refractory, horse, and treas.; J. A. Hetherington, mgr. and supt.; Cap. \$18,000. Oro Bell, Belton, Kansas and others, gold. Shaft and tunnel, free, steam, mill.
"	"	Snowstorm Consolidated Gold Mining Co., Portland, Ind.	F. B. Thornton, pres.; F. B. Thornton, secy. and treas.; J. F. Maccham, mgr. and supt.; Cap. \$18,000. Snowstorm, gold. Shaft and slope, free, water, 10 stamps.
Sterling	Jackson	Sterling Mining Co., Portland, Ore.	A. Neal Cook, pres.; O. L. Cook, secy. and treas.; Henry L. An- keny, mgr. and supt.; Cap. \$18,000. Sterling, gold. Placer, free.
P. O. and Ry, Jackson ville 692,			
Sumpter	Baker	Mary Azores Consolidated Placer Mining Co.	Cap. \$18,000. Mary Azores, gold. Placer, hydraulic, A. Downer, supt.
Ry, Baker City 756,			
Susannah	Grant	Steen & Haskell	Gold. Placer, 12 mt. steam.
Ry, Heppner 756,			
Waldo	Josephine	Geo. Simmons & Z. Cameron	Geo. Simmons, mgr. and supt.; Simmons & Co., gold.
Ry, Grant's Pass 692,			
"	"	Wanner Bros & Co., Oakland, Cal.	100 West, gold. Placer, hydraulic.
Wolf Creek	Josephine	William & Ruth Riddle	Cap. \$2,000. Riddle, gold. Open pit, free, water. S. C. Riddle, supt. and hydraulic mine inspected.
Ry 692 4 miles			
Woodville	Jackson	Alex. Wilson	Gold. Placer, water.
Ry 692			

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	COUNTY.		
Oswego	Clackamas	Oregon Iron & Steel Co., Portland, Ore.	100 Third st. Theo. E. W. Co., pres.; J. E. W. Wilson, secy. and mgr.; Ladd & Linton, treas. Cap. \$18,000.00. Processed Ore. Iron, consolidated, gold. Shaft and tunnel, 1000 tons, steam. J. H. Pomerooy, supt.
Ry, 692			

PENNSYLVANIA

COAL ANTHRACITE

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWN	AND	COUNTY.	
Alaska	Northumberland		Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st., A. A. McLeod, pres't, and gen. mgr.; Franklin F. Kaechler, sec'y., W. A. Church, treas., Alaska, 188,164 tons, steam, breaker and washer, John Veith, supt.
Alden Station	Lyuzerne		Alden Coal Co., Richard Sharpe st., pres't, George H. Myers, sec'y., Richard Sharpe Jr., treas., Cap. stk. \$200,000. Alden, Tunnel and shaft, 900,000 tons, steam, breaker, R. M. Smith, supt.
Archebald	Lackawanna		Delaware & Hudson Canal Co., Scranton, Pa., 204 Providence pl., R. M. Olyphant, pres't, F. M. Olyphant, sec'y., C. A. Walker, treas., H. C. Young, mgr., Cap. stk. \$800,000. White Oak, Slope and tunnels, 165,400 tons, steam and horse, breaker, Andrew Nicol, supt.
"	"		Riverside Coal Co., Scranton, Pa., 448 S. J. Williams, pres't, Thos. J. Jones, sec'y. and treas., John Reese, mgr., Cap. stk. \$200,000. Riverside, 150,000 tons, steam, breaker, Thos. J. Williams, supt.
Ashland	Schuylkill		Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st., A. A. McLeod, pres't, and mgr., F. P. Kaechler, sec'y., W. A. Church, treas., East, 115,500 tons, steam, breaker and washer, John Veith, supt.
Ashley	Lyuzerne		Lehigh & Wilkes-Barre Coal Co., New York City, 114 Liberty st., J. R. Maxwell, pres't, W. F. Zell, sec'y. and treas., Elmer H. Lawall, supt., Jersey, 151,576 tons, steam, breaker, M. P. Morgans, supt.
Audensrad	Carbon		C. M. Dodson & Co., Bethlehem, Pa., C. M. Dodson, pres't, A. S. Schropp, sec'y. and treas., E. L. Bullock, mgr., Cap. \$200,000. Beaver Brook, Slope, 20,000 tons, steam, breaker and washer, D. J. Thomas, supt.
"	"		Lehigh & Wilkes-Barre Coal Co., New York City, 114 Liberty st., J. R. Maxwell, pres't, W. F. Zell, sec'y. and treas., Elmer H. Lawall, mgr., Honey Brook, Slopes, 50,000 tons, steam, breaker and washer, D. P. Roberts, supt.
Avoon	Lyuzerne		Avoon Coal Co., Ltd., C. C. Bowman, pres't, T. L. Bowman, sec'y. and treas., W. H. Hollister, mgr., Cap. stk. \$20,000. Avoon, Shafts, slope and tunnel, 100,000 tons, steam, breaker, Solomon Deddie, supt.
"	"		Florence Coal Co., Ltd., Scranton, Pa., 222 Lackawanna av., W. B. Whitely, pres't, J. P. Kinsbury, sec'y., Chas. P. Matthews, treas., Austin Moor, mgr. and supt., Cap. stk. \$18,000. Elmwood, Shaft, 116,250 tons, steam, breaker.
"	"		Langelille Coal Co., Scranton, Pa., Lackawanna av., R. G. Brooks, pres't, T. E. Brooks, sec'y., J. A. Meigs, treas., Langelille, Shaft and tunnel, steam.
Beaver Meadows	Carbon		William F. Catter & Co., Philadelphia, Pa., 222 Walnut st., Cap. \$100,000. Colburne, Slopes, 120,000 tons, steam, breaker.
"	"		Coxe Bros. & Co., Drifton, Pa., Cross Creek Col. Co.'s, Tunnel, 10,000 tons, steam, coal breakers and washers, F. R. Coxe, supt.
"	"		Evans Mining Co., H. J. Boardman, pres't, Chas. Hagel, sec'y., John D. Evans, treas., mgr. and supt., Cap. stk. \$20,000. Evans, Slope, 50,000 tons, steam, breaker, washer.
Bermie	Sullivan		State Line & Sullivan E. R. Co., Towanda, Pa., J. Raymond & Lathrop, pres't, O. A. Baldy, Jr., sec'y. and treas., F. O. Beldin, mgr. and supt., Cap. stk. \$200,000. Bermie, Tunnel, 10,000 tons, steam, breaker and washer.
Blackwood	Schuylkill		Lehigh Valley Coal Co., Philadelphia, Pa., 28 S. Third st., Editha P. Wallin, pres't, J. R. Fanshawe, sec'y., Wm. C. Alderson, treas., W. A. Lathrop, mgr. and supt., Cap. stk. \$64,000. Blackwood, 8,000 tons, steam, breaker.
Branch Dale	Schuylkill		Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st., A. A. McLeod, pres't, and mgr., F. P. Kaechler, sec'y., W. A. Church, treas., Otto, 115,500 tons, steam, breaker, R. C. Luthin, supt.
Brownsville	Schuylkill		Lehigh Valley Coal Co., Philadelphia, Pa., 28 S. Third st., Editha P. Wallin, pres't, J. R. Fanshawe, sec'y., Wm. C. Alderson, treas., W. A. Lathrop, mgr. and supt., Cap. stk. \$60,000. Parker No. 2 col. lary, 90,000 tons, steam, breaker.
Carbondale	Lackawanna		Delaware & Hudson Canal Co., Scranton, Pa., 204 Providence pl., R. M. Olyphant, pres't, F. M. Olyphant, sec'y., C. A. Walker, treas., H. C. Young, mgr., Cap. stk. \$800,000. Clinton and Powderly slopes, Coal Brook, Wilson Creek and Rickett, Coal Brook tunnels, and Carbondale Nos. 1 and shafts, 6,000 tons, steam and horse, breakers, Andrew Nicol, supt.
"	"		Northwest Coal Co., Scranton, Pa., C. D. Simpson, pres't, A. F. Law, sec'y., T. H. Watkins, treas., Cap. stk. \$100,000. Northwest, Slope, 20,000 tons, steam, breaker, James C. Crawford, supt.
"	"		Stroud & Chamberlain, Belmont st. and Oak av., C. F. Chamberlain, mgr. and supt., Cap. stk. \$80,000. Outcrop and Belmont, Slope and tunnels, 60,000 tons, steam, breaker.
"	"		Wm. P. Williams, 108 S. Church st., Cap. \$2,000. Tunnel, 10,000 tons, hand, breaker.
Centraha	Columbia		Lehigh Valley Coal Co., Philadelphia, Pa., 28 S. Third st., Editha P. Wallin, pres't, J. R. Fanshawe, sec'y., Wm. C. Alderson, treas., W. A. Lathrop, mgr. and supt., Cap. stk. \$60,000. Centraha.
"	"		Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st., A. A. McLeod, pres't, and gen. mgr., F. P. Kaechler, sec'y., W. A. Church, treas., North Ashland, 140,000 tons, steam, breaker and washer, John Veith, supt.
Coudale	Schuylkill		Lehigh Coal & Navigation Co., Philadelphia, Pa., 20 S. Third st., Joseph S. Harris, pres't, S. Shepherd, sec'y. and treas., W. D. Zehner, mgr., Cap. stk. \$14,500,000. Lehigh Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12, 500,000 tons, steam and horse, breaker, R. C. Luthin, supt.
Derringer	Lyuzerne		Coxe Bros. & Co., Cross Creek, Shaft, 10,000 tons, steam, breakers and washers, T. R. Coxe, supt.
Dickson	Lackawanna		Elk Hill Coal & Iron Co., Scranton, Pa., 215 S. Main av., Wm. H. Richmond, pres't, and mgr., E. K. Richmond, sec'y., Cap. stk. \$200,000. Richmond No. 1, Shaft, 6,000 tons, steam, breaker, Patrick R. Key, supt.

COAL—ANTHRACITE (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWN	AND	COUNTY.	
Drifton		Luzerne	Coxe Bros. & Co., Cross Creek. Shaft, 192,000 tons; steam. E. B. Coxe, supt.
Ry. 118, 393.			
Dunmore		Lackawanna	Murray & Co., M. J. Murray, pres. and supt., Thomas Brown, secy.; John Carney, treas., A. J. Murray,
Ry. 252.			mgr. Cap. stk. \$25,000. Murray's, Shaft, 25,000 tons; steam; breaker.
Durycroft		Luzerne	Babylon Coal Co., Scranton, Pa., T. H. Watkins, pres.; W. G. Parke, secy., C. D. Simpson, treas. Cap.
Ry. 269, 252, 304.			stk. \$200,000. Babylon, Shaft, 225,000 tons; steam; breaker. James L. Crawford, supt.
"		"	Old Forge Coal Co., Ltd., New York City, 1 Broadway. John A. Meers, pres. and mgr.; J. Alton Davis,
"		"	secy., C. S. Crane, treas. Cap. stk. \$60,000. Columbia and Phoenix. Shafts and tunnel, 300,000 tons;
"		"	steam; breaker.
Eagle Hill		Schenckkill	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 27 S. Fourth st., A. A. McLeod, pres. and
Ry. and P. O. Pottsville			mgr.; F. P. Kaercher, secy., W. A. Church, treas. Eagle Hill, 167,000 tons; steam; breaker. R. C.
364, 565, 570, 578.			Lathrop, supt.
Eckley		Luzerne	Coxe Bros. & Co., Drifton, Pa., Cross Creek Collieries. Slope, 192,000 tons; steam, breakers and washers.
Ry. 118, 393.			E. B. Coxe, supt.
Edwardsville		Luzerne	The Kingston Coal Co., Kingston, Pa., Daniel Edwards, pres. and mgr.; Elliott R. Morgan, secy. and
Ry. and P. O. Kingston			treas. Cap. stk. \$1,000,000. Kingston, Shafts, 200,000 tons; steam and compressed air; 2 breakers.
269.			G. Willym Edwards, supt.
Excelsior Northumberland			Excelsior Coal Co., Shamokin, Pa., A. Robertson, pres., C. W. Kingsley, secy. and treas., A. D. Robert-
Ry. 578.			son, mgr. and supt. Excelsior. Slopes and tunnels, 268,000 tons; steam and horse; breaker.
Exeter		Luzerne	Lehigh Valley Coal Co., Philadelphia, Pa., 228 S. Third st., Elisha P. Willbur, pres.; J. R. Fanshawe, secy.,
Ry. Pittston 269, 215,			Wm. C. Alderson, treas., W. A. Lathrop, mgr. and supt. Cap. stk. \$650,000. Exeter, Shaft, 47,225
303.			tons; steam; breaker.
"		"	Stevens Coal Co., Pittston, Pa. (West Side), Mito J. Wilson, pres.; C. W. Wesner, secy.; F. E. Stevens,
"			treas., A. B. Stevens, mgr. Cap. stk. \$200,000. Stevens, Slope, steam, breaker (developing).
Fell		Lackawanna	John Martin. Fall Brook. Tunnel, 1,200 tons; steam; breaker.
Ry. and P. O. Carbon-			dale 213, 502.
Gilberton		Schenckkill	Draper Colliery, Pottsville, Pa., H. L. Williams, gen. mgr. and supt. Cap. \$500,000. Draper. Slopes and
Ry. 563, 578.			tunnels, 220,000 tons; steam; coal breaker and washer.
"		"	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 27 S. Fourth st., A. A. McLeod, pres. and
"		"	mgr.; F. P. Kaercher, secy., W. A. Church, treas. Gilberton, 255,000 tons; steam; breaker. John
"		"	Veith, supt.
"		"	Stoddard Coal Co., Chas. E. Broekens, pres.; Guy C. Irish, secy. and treas.; Wm. J. McCarthy, mgr. and
"		"	supt. Cap. stk. \$25,000. Stoddard, 75,000 tons; steam; breaker and washer.
Grandville		Schenckkill	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 27 S. Fourth st., A. A. McLeod, pres. and
Ry. 364, 578.			mgr.; F. P. Kaercher, secy., W. A. Church, treas. Preston Nos. 2 and 3, G. Grand and Hammond, 286,5
"		"	tons; steam; breakers. John Veith, supt.
Glen Carbon		Schenckkill	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 27 S. Fourth st., A. A. McLeod, pres. and
Ry. 578.			mgr.; F. P. Kaercher, secy., W. A. Church, treas. Richardson, 13,560 tons; steam; breaker. R. C.
"		"	Lathrop, supt.
Gowen		Luzerne	Coxe Bros. & Co., Drifton, Pa., Cross Creek, 192,000 tons; steam, coal breakers and washers. E. B.
Ry. 563.			Coxe, supt.
Harwood		Luzerne	Pardee Sins & Co., Lattimer Mines, Pa., C. Pardee, mgr. Cap. \$500,000. Harwood. Slopes, 215,000 tons;
Ry. 578.			steam; coal breaker and washer. A. W. Drake, supt.
Highland		Luzerne	G. B. Markle & Co., Jeddo, Pa., Highland Nos. 1 and 2. Slopes, 200,000 tons; steam; coal breaker. John
P. O. Jeddo Ry. 393.			Markle, supt.
Hollywood		Luzerne	Calum Pardee & Co., Lattimer Mines, Pa., C. Pardee, mgr. Cap. \$500,000. Hollywood. Slopes, 220,000
P. O. Lattimer Mines			tons; steam; coal breaker and washer. A. W. Drake, supt.
Ry. 578.			
Humboldt		Luzerne	Lindenman & Skeer, South Bethlehem, Pa., Cap. \$1,200,000. Humboldt Mine. Slope, 84,000 tons; steam
P. O. Hazleton Ry. 393.			and horse; breaker. Jas. E. Rudenick, supt.
Jouett		Schenckkill	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 27 S. Fourth st., A. A. McLeod, pres. and
Ry. and P. O. Pottsville			mgr.; F. P. Kaercher, secy., W. A. Church, treas. Good Spring, 54,000 tons; steam; breaker. R. C.
578, 393, 564, 570.			Lathrop, supt.
Jeddo		Luzerne	G. B. Markle & Co., Jeddo Nos. 3 and 4. Shafts, 202,200 tons; steam; coal breaker. John Markle, supt.
Ry. 118, 393.			
Jermyn		Lackawanna	Delaware & Hudson Canal Co., Scranton, Pa., 230 Providence pl., R. M. Olyphant, pres., F. M. Oly-
Ry. 215, 595.			phant, secy., C. A. Walker, treas., H. G. Young, mgr. Cap. stk. \$300,000. Jermyn No. 1 shaft,
"		"	108,000 tons; steam and horse; breaker. Andrew Nicol, supt.
"		"	Edgerton Coal Co., Ltd., Scranton, Pa., C. D. Simpson, pres., T. H. Watkins, secy., W. G. Parke, treas.
"		"	Cap. stk. \$300,000. Edgerton. Tunnels, 250,000 tons; steam; coal breaker. Jas. L. Crawford, supt.
"		"	West-side Coal Co., S. D. Davis, pres. and mgr., J. Alton Davis, secy. Cap. \$400. Sunshine. Tunnel,
"		"	10,000 tons; steam; breaker. John E. Nicholson, supt.
Kingston		Luzerne	Lehigh Valley Coal Co., Philadelphia, Pa., 228 S. Third st., Elisha P. Willbur, pres.; J. R. Fanshawe,
Ry. 269.			secy., Wm. C. Alderson, treas., W. A. Lathrop, mgr. and supt. Cap. stk. \$650,000. Maltby, Shaft,
"		"	31,000 tons; steam; breaker.
Lathrop		Luzerne	Amora Coal Co., Wilkes-Barre, Pa., Charles Parrish, pres. and mgr., Wm. C. Allen, secy.; Theo. F.
Ry. 215.			Ryman, treas. Cap. stk. \$500,000. Amora. Slopes and tunnels, 160,000 tons; steam; breaker. John
"		"	N. Convingham, supt.
Linstord		Carbon	Lehigh Coal & Navigation Co., Philadelphia, Pa., 234 S. Third st., Jos. S. Harris, pres.; S. Shepherd,
Ry. 118.			secy. and treas., W. D. Zehner, mgr. and supt. Cap. stk. \$1,358,350. Collieries, Nos. 4, 5 and 6, 240,000
"		"	tons; steam and horse; breaker.
Lattimer Mines		Luzerne	Pardee Bros. & Co., C. Pardee, mgr. Cap. \$500,000. Lattimer. Slopes, 215,000 tons; steam; breaker and
Ry. Mifflinsville 393.			washer. A. W. Drake, supt.

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN	AND	COUNTY.	
Piedmont	Grant	Stipke Rock Mining Co., Silver City, N. Mex., Chas. Drivenport, pres't., P. F. Bates, secy., J. E. Hussey, treas., W. C. Drivenport, mgr. and supt., Cap. stk. \$20,000, Jim Crow, gold and silver, Shafts and tunnels; refractory; steam, 5 stamps.	
Pinos Altos	Grant	Bell & Stephens, N. Bell, mgr. and supt., Pacific Extension, Ohio and Kept Woman, gold, Shafts and tunnels, 2,500 tons; refractory, steam, 15 stamps.	
Ry., Silver City 26 mi. S.		Christman & Robinson Bros., Cap. \$1,500, Little Pacific, gold, silver and lead, Shaft, 300 tons, free and refractory.	
"	"	Consolidated Nebraska Mining Co., Beatrice, Neb., D. A. Wadden, pres't., E. C. Salisbury, secy., A. Bradt, treas., R. W. Davis, mgr. and supt., Cap. stk. \$300,000, Gold, silver and lead, Shaft, 1,000 tons; refractory, steam, 5 stamps.	
"	"	Dummeck Bros., Cap. \$100,000, Silver Cell, silver, Shaft and tunnel, horse, C. A. Dummeck, supt.	
"	"	Hersberger, Everts, Osborn & Spils., Eastern, Western, Eldorado and Oro Fino, gold, silver and lead Shafts and tunnels, 1,000 tons, free and refractory, horse.	
"	"	Houston & Thomas, El Dorado and Prospectos, gold, Shaft and open pit, 21 tons, refractory, hand.	
"	"	Madhattan Gold Mining & Milling Co., St. Louis, Mo., Lechele Bldg., Hon. Nathan Frank, pres't., A. C. Einstein, v. pres't., secy., mgr. and supt., Julius Rothschild, treas., Cap. stk. \$800,000, Aztec, Asatic and others, gold and silver, Shafts and tunnels, 11,000 tons, free, steam, 20 stamps.	
"	"	Wm. Skillman & L. A. Snyder, L. A. Snyder, mgr. and supt., Pacific No. 2, gold and silver, Shaft, horse, 5 stamps.	
Pyramid	Grant	Pyramid Silver Mining Co., Rochester, N. Y., W. J. de Rida, T. J. Reynolds, pres't., G. C. Buel, v. pres't., J. W. Moore, secy. and treas., Cap. stk. \$300,000, Gold and others, silver, Shaft, 5,000 tons; refractory, steam, 20 stamps; J. W. Hamilton, supt.	
Ry., 602 1/2 miles S.			
Questa	Taos	Red River Mining Co., Henry J. Young, pres't. and mgr., Wm. W. Young, secy., F. S. Redding, treas., Red River, gold and copper, Tunnel, steam, old hand developing.	
Ry., Antonito 60 mi. S.			
Red River	Taos	G. W. Payne, George A. gold, silver and copper, Shaft, hand.	
Ry., P. O. Questa Ry., Antonito 21 1/2.			
San Antonio	Taos	Rio Honda Mining Co., Louisville, Ky., Cap. stk. \$100,000, Keystone and others, gold, Place, developing.	
P. O. Arroyo Seco Ry., Tres Piedras 21 1/2.		J. T. W. Brown, supt.	
Sandia City	Bernalillo	Sandia Mining & Smelting Co., John S. Tompison, pres't., Theodore Homberger, secy. and treas., A. Schwartzbach, mgr., Cap. stk. \$300,000, Sandia, gold, silver, copper and lead, Alex. Rodgers, supt.	
P. O. and Ry., Albuquerque 26.			
San Marcel	Socorro	John W. Crawford, J. W. Crawford, pres't. and treas., James Crawford, mgr., Cap. stk. \$120,000, Jim Crawford, silver and lead, Shaft and tunnel, hand, developing.	
Ry., 26.		Rosedale Mining Co., Great London and Redish Bldg., 200, Shafts, 5 stamps, developing.	
San Pedro	Santa Fe	Galena Hill Mining Co., Alexander Rogers, pres't., James Cheres, secy. and supt., L. Skinner, treas., Alex. Rogers, mgr., Cap. stk. \$300,000, Six mines, gold, 5,000 tons, horse.	
Ry., Cortez 26 1/2 mi.		Laneok Lucky Mining Co., R. V. Anderson, mgr. and supt., J. T. Brown and Lucky, gold, silver and copper, Shaft and tunnel, 1,000 tons, steam.	
"	"	Silver Bell Mining Co., Albuquerque, P. O. Box 143, J. L. Trueman, pres't., Alex. Stevens, secy., J. L. Andrews, treas., A. Richards, mgr., Cap. stk. \$200,000, Silver Bell, Lucky No. 2 and Homestake, gold and lead, Shaft, developing.	
Socorro	Socorro	C. L. Brown, Magdalena Queen and Mountain Key, silver, gold, and iron, Shaft and tunnel, 200 tons, free, hand.	
Ry., 26.		R. T. Lyson, Saint Vicente, silver and lead, Shaft and drifts, 200 tons, refractory, horse, J. J. Lyson, supt.	
"	"	Merritt Mining & Milling Co., R. B. Langdon, pres't., W. J. Hahn, secy., A. H. Linton, treas., A. D. Cook, mgr., Cap. stk. \$150,000, Merritt, gold and silver, Tunnel, free steam, 10 stamps, developing.	
"	"	Geo. H. Flawie, Bayas, Piedrite, silver, Shaft, tunnel and drift, free and refractory, horse.	
Stems Pass	Grant	Beck Mining Co., W. K. Meade, mgr. and supt., Cap. stk. \$50,000, Beck, gold and silver, Open pit, deep, 300 tons, refractory, steam.	
Ry., 602.		P. B. Smith, Cap. \$20,000, Volcano, gold and silver, Shaft, 200 tons, free, horse and steam.	
"	"	Chas. W. Thomas & Ogden, Cap. \$5,000, Pacheco, Kilauea, silver, Shafts, 200 tons, free, hand.	
Taos	Taos	Chas. H. Berry & Co., Rio Grande, gold, Place, free water.	
Ry., Escondido 21 1/2.			
Tierra Blanca	Serra	Kenny Bros., Johnson & Sly, Log Cabin, gold and silver, Shafts and tunnels, free, hand, C. A. Sly, supt.	
Ry., Lake Valley 26.			
White Oaks	Lincoln	Lady Godiva Mining Co., Lady Godiva, gold, Shaft, 20 tons, free, steam, B. H. New, supt.	
Ry., Catheage 26 1/2 mi.		North Homestake Mining Co., Petris, Cal., James M. Slaters, pres't., J. F. Croft, secy., J. F. Croft, mgr., Cap. stk. \$100,000, North Homestake, gold, Shaft, deep, 1,000 tons, free, steam and hand, Frank R. Lloyd, supt.	
"	"	Old Abe Mining Co., John A. Hewitt, pres't., Frank J. Sauer, secy. and treas., Cap. stk. \$200,000, Old Abe, gold, Shaft, 14,000 tons, free, steam, 20 stamps.	
"	"	White Oaks Mining Co., St. Louis, Mo., 5000 West, Bella Wells, pres't., J. B. Voss, secy. and treas., J. W. Parker, mgr., Cap. stk. \$300,000, Homestake, gold, Shafts and drifts, 5,000 tons, free, steam, 20 stamps, Joseph Crishaber, supt.	

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS AND COUNTY		
Haber Ry. 26.	Grant	Southwestern Coal & Iron Co., Colorado Springs, Colo., Bank Bldg., C. L. Perkins, pres., T. G. Condon, V.-pres., and mgr.; R. P. Perkins, secy. and treas. Cap. stk. \$1,000,000. Open pit, 30,000 tons; hand.
Santa Rita Ry. 26.	Grant	Santa Rita Copper & Iron Co., I. P. Whitney, pres.; Wm. J. Downing, secy. and treas.; Franklin Mahon, mgr. and supt. Voltaire, Garfield, Booth and Nugent, hematite and magnetite. Shafts and open pits, 2,500 tons; steam, horse and hand.
Silver City Ry. 26.	Grant	William H. Newcomb, Cap. \$50,000. Union, Harbathia, Iron Head, Mikado and Adonis, magnetite and hematite. 30,000 tons; horse and hand.
White Oaks Ry. Carthage 26.	Lincoln	Zenarilla Iron Mining Co., East Las Vegas, N. M. Cap. stk. \$100,000. Zenarilla, hematite. Shaft.

LEAD AND ZINC

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS AND COUNTY		
Cooks Ry. Florida 26.	Grant	Peter Sprey, Minnesota, Wisconsin and others, lead. Tunnel; refractory.
Haber Ry. 26.	Grant	Mineral Point Zinc Co., Chicago, Ill., 1206 Ashland Block, D. B. Jones, pres.; W. A. Jones, secy. and treas. Thunderbolt and Zinc Valley, zinc. Open pit, hand.
Kelly Ry. 26.	Socorro	Graphic Mining Co., Graphic, lead. Shafts and tunnels, 15,000 tons; steam. W. H. Patterson, supt.
Las Cruces Ry. 26.	Dona Ana	Lawrence Lapoint, Alice A. R. Nell, lead. Shaft.
Organ Ry. Las Cruces 26.	Dona Ana	A. J. De Meules, Cap. \$5,000. Galena King, lead. Tunnel; hand.
"	"	Gibbs & Edison, W. B. Gibbs, mgr. and supt. Cap. \$5,000. Comstock, lead. Shaft, 200 tons; refractory; horse.
Phos. Mts. Ry. Silver City 26.	Grant	J. H. Houston & W. B. Thomas, Alpha and Omega, lead. Shafts; tunnels and slopes, 1,200 tons.

MICA

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS AND COUNTY		
Tros Piedras Ry. 213.	Taos	George B. Berry, California, Highland, Little Giant, mica. Shafts and tunnels, hand.

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS AND COUNTY		
Hillsboro Ry. Lake Valley 26.	Santa Fe	Owen McDonald & Arndt, Statue, Marble (developing).
Silver City Ry. 26.	Grant	G. Arnhem & J. Wollsten, New York City, 90 Nassau St., G. Arnhem, mgr. Ajax, stone. Slope; hand and horse. J. Wollsten, supt.
"	"	Mexican Marble & Onyx Co., Chicago, Ill., 50 Dearborn St., W. J. Patchell, pres.; D. F. Morris, secy.; A. H. Toolnet, treas.; T. E. Hinds, mgr. Cap. stk. \$250,000. Cadwell, marble and onyx. Open pit; hand developing.

SEE ALSO SUPPLEMENTARY LIST

NEW YORK

ASBESTOS

LOCATION OF MINE,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.
TOWN AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED,
MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Edwards St. Lawrence
Ry. Gouverneur 618.

Asbestos Pipe Co., Rochester, N. Y., Gothic Insurance Bldg. A. L. McCre Jr., Mgr., Cap. stk. \$300,000.
Asbestos, Bldg. 1st fl., 16,000 tons, water.

CEMENT

LOCATION OF MINE
OR QUARRY,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.
TOWN AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF MINE OR QUARRY, KIND OF PRODUCT, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF
2,000 POUNDS, KIND OF POWER USED, CEMENT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

De Witt Onondaga
Ry. 501.

John Sheedy & Son, Cap. \$20,000. Cement, limestone. Open pit, 5,000 tons; cement mill, 6,000 tons, lime
kiln, 5,000 tons.

Fay-Havillat Onondaga
Ry. 798.

Riggs & Gaynor. Cement and plaster rock. Open pit, 12,000 tons, steam; cement mill, 600 tons, plaster
mill, 7,000 tons. W. F. Gaynor, supt.

CORUNDUM

LOCATION OF MINE
OR BANK,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.
TOWN AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER
USED, ETC., AND NAME OF SUPERINTENDENT.

Cornhill Westchester
P. O. and Ry. Peek-
skill 215, 501.

New York Emery Co., A. G. Sinclair, pres. and mgr., T. H. Dugan, secy., Cap. stk. \$100,000. Peekskill,
emery. Open pit, 350 tons, hand, steam, mill. A. G. Sinclair, supt.

GRAPHITE

LOCATION OF MINE
OR BANK,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.
TOWN AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER
USED, ETC., AND NAME OF SUPERINTENDENT.

Graphite Warren
Ry. Tonawanda 120,
219.

Joseph Dixon Crucible Co., Jersey City, N. J., cor. Wayne and Monmouth sts., L. P. C. Young, pres.,
George E. Long, secy., John A. Walker, v. pres., treas. and mgr., Cap. stk. \$75,000. American
graphite. Open pit, 800 tons, steam. George Hooper, supt.

GYPSUM

LOCATION OF MINE
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.
TOWN AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED,
MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Candlish Onondaga
Ry. 501.

Kenna & Allen local. Gypsum. Open pit, 100 tons, water, mill.

De Witt Onondaga
Ry. Orville 260.

W. W. Candlish, Fayetteville, N. Y., Cap. \$5,000. Gypsum. Open pit, 10,000 tons, hand.

" " "

Robert Dunlap & Co., Cap. \$20,000. Jamesville, gypsum, cement. Open pit, 5,000 tons, water, cement
mill, capacity 15,000 tons, gypsum mill, capacity 7,500 tons.

" " "

Wm. C. Hurd. Gypsum bed, gypsum rock. F. M. Severson, mgr.

Ledy Madison
P. O. Hobokenville
Ry. Wampsville 798,
250.

Irryng Fiddle, Cap. \$5,000. Open pit, 500 tons, water.

Madison Onondaga
Ry. 798.

James Behm, Cap. \$5,000. Gypsum, cement. Open pit, 20,000 tons, steam, cement mill, 15,000
tons.

Oakfield Genesee
Ry. 798.

Olufsted & Stopas, Cap. \$10,000. Gypsum, 2,000 tons, steam.

Sullivan Madison
Ry. Cottons 247.

R. D. Button. Plaster stone. 1,000 tons, mill.

Wheatland Monroe
P. O. Garbutt Ry. 85.

J. W. Garbutt. Garbutt, gypsum. Shaft, 8,000 tons, water, mill.

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY	
Amherst Ry. 501.	Dutchess Amherst Mining Co., New York City, 58 Williams st., F. Kingsbury Curtis, pres.; A. M. Card, secy.; J. J. Morehouse, treas. Cap. stk. \$150,000. Amherst, brown hematite. Open pit, 20,000 tons; steam.
Antwerp Ry. 688.	Jefferson Jefferson Iron Co., E. B. Bulkeley, pres. and mgr.; F. S. Salisbury, secy.; C. E. Bulkeley, treas. Cap. stk. \$200,000. Old Sterling, hematite. Shaft and slope, 75,000 tons.
Berkham Ry. 493.	Dutchess A. E. Tower & Bro., Poughkeepsie, N. Y. Hematite, 13,000 tons; steam. J. P. Cramp, supt.
Black Brook Ry. Au Sable 213.	Clinton Penn Steel Ore Co. Ltd., Clintonville, N. Y. Geo. H. Cleaves, pres.; Charles M. Hopkins, secy. and treas. Cap. stk. \$31,000. Fabner and Winter, iron ore. Slope; steam; bloomary forge.
Crown Point Ry. 486, 213.	Essex J. & J. Rogers Iron Co., Au Sable Forks, N. Y. H. W. Stetson, pres.; James Rogers, secy. Cap. stk. \$200,000. Palmer, magnetite. Slope; steam. Wm. Hopkins, supt.
Crown Point Ry. 124.	Clinton Crown Point Iron Co., Chester Griswold, pres.; H. M. Olmsted, secy. and treas.; A. L. Inman, mgr. Cap. stk. \$1,500,000. Crown Point, bessemer. Shafts and slopes, 55,000 tons; steam. Thos. Montague, supt.
Chateaugay Ry. 124.	Clinton Chateaugay Ore & Iron Co., Plattsburg, N. Y. 50 Clinton st. Smith M. Wood, pres.; A. L. Inman, secy. and mgr.; H. M. Olmsted, treas. Cap. stk. \$1,500,000. Chateaugay, bessemer, magnetite. Shafts, 300,000 tons; steam, furnace. A. McDonald, supt.
East Fishkill Ry. Sullivan Lake 63.	Dutchess A. E. Tower & Bro., Poughkeepsie, N. Y. Brown hematite, 12,000 tons; steam. J. P. Cramp, supt.
Fort Montgomery Ry. 708.	Orange Forest of Dean Iron Ore Co., Poughkeepsie, N. Y., foot of Hoffman st. Jos. T. Tower, pres.; H. N. Bronshtad, secy.; A. E. Tower, treas. and mgr. Cap. stk. \$400,000. Forest of Dean, magnetite. Slope, 20,000 tons; water. Pease Clonin, supt.
Gouverneur Ry. 638.	St. Lawrence Gouverneur Iron Ore Co., S. H. Beach, pres.; John Webber, secy. and mgr.; Wm. R. Dodge, treas. Cap. stk. \$200,000. Kearny, hematite. Shaft, 30,000 tons; steam. John Salmon, supt.
Harrisville Ry. 100.	Lewis Specular Iron Mining Co., Syracuse, N. Y., White-Merrill Bldg. Clarence Tucker, pres. and mgr.; E. N. Westcott, secy.; Charles A. Tucker, treas. Cap. stk. \$240,000. Specular, bessemer. Shaft; steam.
Morah Ry. Port Henry 213.	Essex Essex Iron Co., New York, N. Y., 45 Cedar st. G. Lindenthal, pres.; O. H. Cutler, secy.; James M. Lewis, treas.; Wm. H. Searles, mgr. Cap. stk. \$25,000. Essex, bessemer, magnetite. Slope, 15,000 tons; steam. Wm. H. Searles, supt.
"	" Fort Henry Iron Ore Co., Poughkeepsie, N. Y., foot of Hoffman st. I. Townsend Burden, pres.; Frank S. Witherbee, secy.; A. Edward Tower, treas. and mgr. Cap. stk. \$200,000. "21," Fisher, magnetite. Shafts, slopes and open pit, 100,34 tons; steam. George G. Roe, supt.
"	" Witherbee, Sherman & Co., Port Henry, N. Y. New Rd. "O. B." 21 mines, bessemer, magnetite. Shaft, tunnel, slope, open pit, 300,000 tons; steam, electricity, 3 furnaces. W. H. Teft, supt.
Northeastern Ry. Purdy's Sta. 501.	Westchester Clover Hill Mine & Concentrating Works, Pittsburg, Pa., Bank of Commerce Bldg. Clover Hill, magnetite. Open, 60,000 tons; steam. Wm. D. Hoffman, supt.
Rossie Ry. Hammond 68.	St. Lawrence Rossie Iron Works, New York, N. Y., Room 84 Drexel Bldg. Anthony J. Thomas, pres.; J. P. Curtis, secy. and treas.; Gregory P. Barthe, mgr. Cap. stk. \$300,000. Keene, Caledonia, Kearny, red hematite. Shaft, slope, 40,000 tons; steam.
Warwick Ry. 394.	Orange Sterling Iron & Railway Co., New York, N. Y., 43 Wall st. M. Cox, pres.; Peter C. Barlow, secy.; D. Crawford Clark, treas.; Chas. R. Westbrook, gen. mgr. and supt. Cap. stk. \$1,250,000. Sterling, Scott, iron ore. Shaft, slope, 65,000 tons; steam.

MICA

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY	
Warrenton Ry. Prospect 68.	Berkmer Isaac J. Griffith, Utica, N. Y., 57 Arcade. Tunnel, hand developing 21.

MINERAL PAINT

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY	
Cambria Ry. 49, 261. Rd 213, 261.	Berkmer William Connors, Troy, N. Y., 677 River st. American Seal, mineral paint. Open pit, 2,000 tons; water.
Oneonta Ry. 213.	Ortsego Oneonta Mineral Paint Works, New York City, Tribune Bldg. Oneonta, Indian ochre. Steam, mill.

SALT

LOCATION OF MINE OR WELL, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS	AND	COUNTY	
Belle Isle		Onondaga	James M. Gere. Wells, 15,000 brls.; steam, horse, hand.
Ry. 201, 737, 738.			
Castile		Wyoming	Mrs. R. F. Edmundson, Silver Springs, N. Y. J. M. Dumeau, receiver. Wells, 30,000 brls.; steam.
Ry. 763.			
Cuylerville		Livingston	Phoenix Dairy Salt Co., Mount Morris, N. Y. Benjann Roberts, pres.; W. W. Morehouse, secy.; F. J. Almer, treas.; mgr. and supt. Cap. stk. \$30,000. Phoenix, common, fine, dairy. Wells, 50,000 brls.; steam.
Ry. 805.			
Gainsville		Wyoming	Dumeau Salt Co., Silver Springs, N. Y. J. M. Dumeau, pres. and mgr.; S. G. Whiton, secy. and treas. Cap. stk. \$150,000. Dairy, common, fine. 6 wells, 300,000 brls.; steam.
Ry. 85.			
Lakeville		Livingston	National Salt & Chemical Co., F. B. Thurler, pres.; L. P. West, secy.; Charles F. Burger, treas. and mgr. Cap. stk. \$500,000. Consens, common, fine. 3 wells, 60,000 brls.; steam. L. P. West, supt.
Ry. 763.			
Ledester		Livingston	Lackawanna Salt Co., J. S. Tower, mgr. Cap. stk. \$80,000. Lackawanna, rock, common, fine. 2 wells, 67,000 brls.; steam. A. W. Wells, supt.
(T.O. Moscow Ry. 201.			
Le Roy		Genesee	Le Roy Salt Co., C. F. Pentiere, pres.; C. T. Keeney, secy.; A. E. Miller, treas., mgr. and supt. Cap. stk. \$100,000. Dairy, common, fine. 9 wells, 180,000 brls.; steam.
Ry. 85, 501, 503.			
Liverpool		Onondaga	J. & P. Smith. Cap. \$75,000. Fine. Wells, 50,000 brls.; steam.
Ry. 638.			
Mount Morris		Livingston	Royal Salt Co., John A. Young, pres.; John M. Prophel, secy. and treas.; J. C. Winters, mgr. Cap. stk. \$100,000. Royal, salt, dairy, fine, coarse. Wells, 20,000 tons; steam.
Ry. 201, 703, 805.			
Onondaga		Onondaga	R. Mara, Syracuse, N. Y., 26 Lynch Block. Salt, fine, coarse. Evaporation, 2,000 tons.
Ry. Syracuse, 201, 501, 638.			
Pearl Creek		Wyoming	Pearl Salt Co., George C. Ous, pres.; J. C. Bixton, secy. and treas. Cap. stk. \$10,000. Pearl, dairy, common, fine. Wells, 100,000 brls.; steam.
Ry. 85.			
Perry		Wyoming	Perry Salt Co., F. H. Wyckoff, pres.; W. S. Page, secy. and treas.; W. C. Patterson, mgr. Cap. stk. \$80,000. Perry, common, fine. Wells, 15,000 brls.; steam, water. L. H. Donnelly, supt.
Ry. 673.			
Saltine		Onondaga	Philip Corkings, Syracuse, N. Y., Clinton Block. Thomas Gale, pres.; Lewis Hawley, secy.; Thomas Malloy, treas. Onondaga, coarse. Wells, steam. T. J. Brummkamp, supt.
(P. O. Liverpool) Ry. 638.			
"		"	Linens Gleason, Liverpool, N. Y. Cap. \$100,000. Fine. Wells, 15,000 tons; steam.
"		"	
Salt Vale		Wyoming	Crystal Salt Co., Haverstraw, N. Y. Geo. H. Smith, pres.; C. T. Bartlett, secy. and mgr.; L. M. Hodges, treas. Cap. stk. \$50,000. Crystal, table, dairy. Wells, 50,000 brls.; steam.
Ry. 85.			
Syracuse		Onondaga	H. H. Freeman, 204 West st. Cap. \$50,000. Common, fine. Wells, 14,000 tons; steam. T. J. Brummkamp, supt.
Ry. 201, 501, 638, 703.			
"		"	M. R. Hayes, 208 East st. Cap. \$20,000. Common, fine. Wells, 95,000 brls.; steam.
"		"	Western Course Salt Co., Clinton Block. S. L. Constock, pres. and mgr.; George F. Constock, jr., secy.; George F. Constock, treas. Cap. stk. \$125,000. Coarse. Wells, 40,000 brls.; steam and water.
"		"	
Wayside		Wyoming	Atlantic Salt Co., New York, N. Y., 107 Hudson st. J. A. Cook, pres. and mgr.; B. C. Macy, secy. and treas. Cap. stk. \$700,000. Standard, dairy, table. Wells, 150,000 brls.; steam.
Ry. 85, 503.			
"		"	Gunnlock & Humphrey. Cap. \$100,000. Dairy, fine, common. Wells, 100,000 brls.; steam.
"		"	Miller Salt Co., L. A. Miller, pres.; T. E. Norton, secy.; R. D. Miller, treas. and mgr. Cap. stk. \$175,000. Miller, common, fine, dairy. 2 wells, 150,000 brls.; steam. W. A. and S. J. Miller, supt.
"		"	
York		Livingston	Livingston Salt Co., Ltd., Philard, N. Y. Charles F. Wadsworth, pres.; Thomas O. Mera, secy. and treas. Cap. stk. \$50,000. Livingston, common, fine, rock. Wells, 120,000 brls.; steam.
Ry. 805.			
"		"	York Salt Co., Neil Stewart, pres.; Alex. Reid, secy.; James Bondy, treas. and mgr. Cap. stk. \$50,000. Coarse. Well, 50,000 brls.

SLATE

LOCATION OF QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF QUARRY, KIND OF SLATE, KIND OF QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF QUARRY SUPERINTENDENT.
TOWNS	AND	COUNTY	
Granville		Washington	Martin McHenry. Bates & Allen, red slate. Open pit, 1,200 tons; horse.
Ry. 213.			
"		"	Mettowee Red Slate Co., Wm. H. K. Hild, pres.; Hugh Williams, secy., treas. and mgr.; M. H. ... red slate. Open pit, horse, steam.
"		"	New Boston Red Slate Co., E. K. Richardson, pres.; O. H. Hughes, secy.; Evan W. Day, s. treas.; A. S. Hughes, mgr. New Boston. Open pit, 21,500 tons; steam, horse.
"		"	Williams & Griffiths, Granville, N. Y. Cap. \$1,000. Red slate. Open pit, 100 tons; horse. Joseph W. Williams, supt.
Middle Granville		Washington	
Ry. 213.			
Salem		Washington	Moray & Kaye. Cap. \$20,000. Moray, red slate. Open pit, steam.
Ry. 213.			
"		"	John M. Williams. Valley View. Open pit, 700 tons; horse, steam. John H. O'Connell, supt.

SLATE (CONTINUED)

LOCATION OF QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF SLATE, KIND OF QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF QUARRY SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Sand Lake	Reusselcher Ry. Troy 315, 501.		Cornelius Snyder. Cap. \$15,000.	Sand Lake. Open pit, 450 tons; water; paint mill.
Troy	Reusselcher Ry. 315, 501.		F. Thomas, 12 Fourth St.	Slate rock. Open pit, 1,000 tons; water; mill.
Whitehall	Washington Ry. 213.		Hatch Hill Red Slate Works.	Red and olive slate. Paint mill.

SOAPSTONE

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Edwards	St. Lawrence Ry. Gouverneur 618.		Adirondack Pulp Co., R. H. Thurman, pres., W. V. Baker, secy.; John A. Manning, treas. Cap. stk. \$375,000.	Adirondack, talc. Shaft, drift, slope, 100,000 tons; steam. Charles A. Millet, supt.
"	"		Agalite Fibre Co., New York City, P. O. Box 781.	Freeman, fibrous talc. Shaft, 8,000 tons; steam. Henry Johnson, supt.
"	"		Fred H. Haile, Col. Palmer, talc. Shaft, 8,000 tons; water.	Alfred Treglow, supt.
Fowler	St. Lawrence Ry. Gouverneur 618.		Gardner Pulp Co., Wm. Woodcock, talc. Shaft, 6,000 tons; steam.	
"	"		Northern New York Manufacturing Co., Donald McNaughton, pres.; M. D. Packard, secy. and treas.; J. McNaughton, mgr. Cap. stk. \$200,000.	Wald, talc. Shaft, 4,000 tons; horse; mill, capacity 4,000 tons. J. McNaughton, supt.
Gouverneur	St. Lawrence Ry. 618.		Asbestos Pulp Co., Rochester, N. Y., 65 German Insurance Bldg., A. S. Bigelow, pres.; A. H. Green, secy. and treas.; A. L. McCrea jr., mgr. Cap. stk. \$30,000.	Palmer, fibrous talc. Shaft, 30,000 tons; water.
Hughesboro	St. Lawrence Ry. Gouverneur 618.		Asbestos Pulp Co., Rochester, N. Y., German Insurance Bldg., Albert S. Bigelow, pres.; Arthur H. Green, secy. and treas.; A. L. McCrea jr., mgr. Cap. stk. \$300,000.	Palmer, Freeman, talc. Shaft, slope, water. A. L. McCrea jr., supt.

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Albion	Orleans Ry. 250, 501.		Albion Stone Co., H. M. Chaffin, pres.; W. B. Page, secy. Cap. stk. \$50,000.	Albion, sandstone. Open pit, steam. Thos. Halden, supt.
"	"		Goodrich & Clark Stone Co., D. E. Goodrich, mgr. Sandstone. Open pit, 20,000 tons; hand and steam.	
"	"		Rochester Medina Stone Co., Rochester, N. Y., Ellwanger & Barry Bldg., Wm. F. Ross, pres. and mgr., T. A. Smythe, treas. Cap. stk. \$15,000.	Medina sandstone. Open pit, steam, hand.
Chardon	Orleans Ry. Holley 501.		Michael Slack, Medina, N. Y., 25 Main St. Cap. \$30,000.	Slack's, sandstone. Open pit, 12,000 tons; steam and hand, mill. James Burns, supt.
Ellenville	Ulster Ry. 505		Ulster Granite Co., New York, N. Y., 25 Whitehall St., Charles Galwey, pres.; Peter Balen, v. pres.; Thomas M. Bisette, secy.; Alfred W. Lewis, treas. Cap. stk. \$1,000,000.	Granite. Steam, hand.
Fordham	New York (P. O. N. Y. City) Ry. 501.		Carpenter Bros., Port Chester, N. Y. Cap. \$100,000.	Ballast, gneiss. Open pit, 75,000 tons; steam.
Genoa	Cayuga Ry. King's Ferry 333.		J. G. Barger. Cap. \$5,000.	Barger's, bluestone. Open pit, 2,000 tons; steam.
Gouverneur	St. Lawrence Ry. 618.		Empire State Marble Co., John R. Wood, pres. and treas.; Gilbert Madison, secy.; John W. Tracy, mgr. and supt. Cap. stk. \$75,000.	Empire State, marble. Open pit, steam, mill.
"	"		Gouverneur Marble Co., S. B. Van Duzee, pres.; G. P. Orlin, secy.; Lewis Eckmann, treas.; D. J. Whitney, mgr. and supt. Cap. stk. \$75,000.	Gouverneur, marble. Open pit, 6,000 tons; steam, mill.
"	"		St. Lawrence Marble Co., John Benham, pres. and treas.; H. D. Fuller, secy.; T. J. Whitney, mgr. and supt. Cap. stk. \$150,000.	St. Lawrence, marble. 20,000 tons; steam, mill.
Granby	Oswego (P. O. and Ry. Oswego Falls) 201.		Granby Brown Stone Co., Oswego, N. Y., O. J. Jennings, secy. and mgr. Cap. stk. \$200,000.	Granby, sandstone. 5,000 tons; steam.
Greenville	Columbia (P. O. Jonesburg) Ry. 70, 667, 501.		Fred. W. Jones, Jonesburg, N. Y. Hudson, limestone. 60,000 tons; hand and steam, mill. Wm. Young, supt.	
Hindburg	Orleans Ry. 250.		Chadwick Bros., Albion, N. Y. Cap. \$15,000.	Sandstone. Open pit, 3,000 tons; steam and horse.
Hullborton	Orleans Ry. 501.		Edward Fancher, Murray, N. Y. Cap. \$10,000.	Medina stone. Open pit, 6,000 tons; steam, electricity.
Minerva	Essex Ry. North Creek 213.		Adirondack Garnet Co., Everett J. Stevens, pres.; Minot Crohore, secy.; Harry Crohore, treas. and mgr. Cap. stk. \$50,000.	Garnet. Open pit, 500 tons; hand. T. L. Allen, supt.

STONE, MARBLE, GRANITE AND ONYX (CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERILLS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Mt. Pleasant	Westchester		Snowflake Marble Co., New York City, 157 Broadway. Geo. S. Rice, pres.; H. Greenmeyer, secy.; A. L. Pritchard, treas. and mgr. Cap. stk. \$100,000. Snowflake marble. Open pit, 10,000 tons; steam, mill, 3 kilns. R. S. Benwood, supt.	
New Hartford	Oneida		E. F. Thompson (local). Thompson, brown sandstone. Open pit, 1,000 tons; horse, hand.	
Oxford	Chemungo		F. G. Clarke Blue Stone Co., Oxford, bluestone, steam, mill. H. W. Clarke, supt.	
Phillips	Putnam		Lewis J. Bailey. Breakneck, granite. Open pit, mill.	
	P. O. and Ry. Cold Spring			
Plattsburg	Clinton		Burlington Manufacturing Co., Burlington, Vt., 251 Pine st. Torrey E. Wales, pres.; Abner H. Stone, secy.; Joel H. Gates, treas.; Chas. R. Hayward, mgr. Cap. stk. \$175,000. Leganto and French gray marble. Open pit, steam, mill. P. Lezotte, supt.	
Potsdam	St. Lawrence		Potsdam Red Sandstone Co., Sandstone. Steam.	
Ridgeway	Orleans		John Le Valley, Shelby Basin, N. Y. Cap. \$50,000. Le Valley's, sandstone. Open pit, 14,000 tons; hand and horse; mill.	
Rochester	Elster		Esopus Millstone Co., Kingston, N. Y. Wm. M. Hayes, pres. and treas.; A. Hayes, secy. and mgr.	
	(P. O. Accord) Ry. Rosendale		Esopus, millstone. Open pit, hand, mill.	
"	"		J. C. Harnden, Kyserko, N. Y. Cap. \$400. Esopus, millstone. Open pit, 500 tons; hand.	
"	"		James S. Vanetten, Granite, N. Y. Esopus, millstone. Open pit, hand, mill.	
Warsaw	Wyoming		Warsaw Blue Stone Co., N. S. Beardsley, pres.; W. J. Emerson, secy. and mgr.; S. B. Whitlock, treas. Cap. stk. \$20,000. Warsaw Blue bluestone. Sops. open pit, steam, mill. A. B. Davis, supt.	
Warwick	Orange		Tuthill & Hankins. Pochoqui Mountain, granite. Open pit, hand. Devo S. Tuthill, supt.	
Warwarsing	Ulster		F. H. Lawrence. Esopus, millstone, hand, cement, mill.	
	Ry. 215.			

SEE ALSO SUPPLEMENTARY LIST

NORTH CAROLINA

BARYTES

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY	
Strickhouse Ry. 622.	Madison J. T. Morehead, Leadsville, N. C. Open pit, 1,200 tons, hand.

COAL—BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY	
Egypt Depot Ry. 244.	Chatham Egypt Coal Co. Samuel A. Henzey, pres. and mgr., Fletcher Coleman, secy. and treas. Cap. stk., \$300,000. Egypt. Shaft, 100,000 tons; steam.

COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY	
Blue Wing Ry. Mayo 32.	Gerrhville Blue Wing Copper Co., Washington, D. C., 1416 F St., H. S. Cummings, pres., C. S. Conger, secy., Chas. A. Williams, treas.; Geo. B. Chittenden, mgr. Cap. stk., \$500,000. Blue Wing, copper, hornite, quartz. Shaft, 6,000 tons; steam; concentrator, 6,000 tons. J. C. Fenlon, supt.
Cullowhee Ry. Webster 622.	Jackson Southern Mining & Manufacturing Co. Cullowhee, Waze-Nutta and Savannah, copper, mica and kaolin. Shaft and tunnel.
Raker City (P. O. Blue Wing) Ry. Mayo 32.	Gerrhville Blue Wing Copper Co. William Whitman, pres., J. R. Kaufman, secy.; A. Walter, treas.; William Raker, mgr. Cap. stk., \$500,000. Blue Wing, copper. Shaft and drift, 20,000 tons, free; steam.

CORUNDUM

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.
TOWNS AND COUNTY	
Florida Ry. Webster 622	Macon J. D. Moore. Turkey Knob, Corundum Hill and Whitcomb. Open pit.

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY	
Arvest Creek, Brimcombe Ry. Asheville 622 (1111).	Levi Jackson, Asheville, N. C. County Line, gold and silver. Open pit, hand.
Brimdettown Ry. Morganton 622.	Boyd Co. Hancock, gold. Placer, free, water. J. E. Boyd, supt.
"	Carolina Queen Consolidated Co., Boston, Mass., 175 Devonshire St., Charles M. Bruce, trustee, Carolina Queen Consolidated, gold. Placer, shaft, free, steam, 5 stamps, Frank W. Boyd, supt.
"	M. H. Gouss, Brimdettown, gold. Placer, open pit.
"	E. A. Johnson, Queen Mine, gold. Placer, open pit, hand.
"	W. Kelley, White Bank, gold. Open pit, hand. J. C. Mills, supt.
"	John C. Landrean, Washington, D. C. Hancock, gold. Placer, hand.
"	William Long, Acon, gold. Placer, tunnel, hand.
"	Chas. Saffleny, Gold.
Chandler's Grove Montgomery Ry. Lexington 622.	W. L. Russell, Cap. \$1,000. Russell, gold, quartz. Open, hand.

GOLD AND SILVER—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
China Grove,		Rowan	Aldrich Mining Co., Salisbury, N. C.	W. F. Aldrich, pres.; A. P. Lighthill, secy. and mgr.; Cap. stk. \$30,000. Southern Belle, gold. Shaft and slope, 3,000 tons; free and refractory; steam; 10 stamps; M. Folsom, supt.
Clear Creek,	Cabarrus		Simpson River Silver & Gold Mining Co., Hornet, N. C.	Robert Simpson, mgr.; Cap. stk. \$6,150. Simpson, gold and silver. Tunnel, 100 tons; steam. M. O'Donnell, supt.
Derita,	Mecklenburg		C. A. Mezgar.	Hunter, gold. Open pit, free, steam, stamp mill.
Flagtown,	Montgomery		F. E. Reeves.	Gold. Shaft, water.
Garfield,	Rowan		Luey E. Williams.	T. R. Williams, mgr. and supt. Gold Knob, gold and copper. Shafts, refractory, steam, 5 stamps.
Gastonia,	Gaston		Long Creek Co., Richmond, Va.; City Bank.	T. M. R. Talcott, pres.; Wm. H. Palmer, Jr., secy. and treas.; Cap. stk. \$100,000. Mount Hope, Dixon, Asbury, gold. Shafts, refractory, steam (developing).
Globe,	Caldwell		Watonga Mining Co., Knoxville, Tenn.	Charles H. Brown, pres.; T. F. Brinkton, secy. and treas.; J. H. Todd, mgr.; Cap. stk. \$100,000. Old Grange, gold. Slope, 200 tons; free, water, stamp mill. Alfred Wortham, supt.
Gold Hill,	Rowan		F. H. Manney.	Cap. \$10,000. Rumble and McMaekin, gold. Shafts, free and refractory, horse.
"	"		New Gold Hill Co., Ltd., London, Eng.; 15 George st., Mansion House.	Major General Lloyd, pres.; Richard L. Hobbs, secy.; Richard Fimes, Jr., mgr. and supt.; Cap. stk. \$175,000. Gold Hill, gold and copper. Shafts, 6,000 tons; refractory, steam, 20 stamps.
Hartland,	Caldwell		Bea Mountain Mining Co., Lenoir, N. C.	Miller, gold. Open pit, free, steam, mill (developing).
Hornet,	Mecklenburg		C. P. Mingo & E. H. Hanson.	Cap. \$2,000. Harris. Open pit and shaft, free (developing). C. P. Mingo, supt.
Huntersville, Mecklenburg			W. R. Jordan, Derita, N. C.	Jordan, gold. Open pit, water.
Jameson,	Guilford		Central Gold & Copper Mining Co., Norfolk, Va.	John B. Whitehead, pres.; Cap. stk. \$100,000. Central, gold and copper. Shaft, free (steam, m.).
"	"		North State Copper & Gold Mining Co., Baltimore, Md.; 6 South Gay st.	Charles K. Oliver, pres.; Farman Sailer, secy.; W. H. Sadler, treas.; Cap. stk. \$100,000. North State, gold and copper. Shafts, tunnel and slope, free and refractory, steam, water, 20 stamps and concentration. James Palmer, supt.
"	"		Southern Gold & Copper Co., Philadelphia, Pa.; 302 Walnut st.	George R. Morehouse, pres.; Cap. stk. \$100,000. Southern, gold and copper. Shafts, free and refractory, steam. James Palmer, supt.
Lenoir,	Caldwell		Blue Ridge Mining Co., Husband's creek, Bald Knob, gold.	Stam. stamp mill; J. S. Perkins, supt.
Lincolnton,	Lincoln		W. A. Graham.	Cap. \$10,000. Graham, gold, silver, copper. Open and placer, free, hand.
Matthews,	Mecklenburg		Baltimore & North Carolina Gold Mining Co., Baltimore, Md.; 21 S. Gay st.	J. W. Hooper, secy.; Baltimore and North Carolina, gold quartz. Shaft and slope, free and refractory, steam; 5 stamps; P. G. Fisher, supt.
Monroe,	Union		A. A. Loney.	Lyndeen River, gold. Shaft and open pits, free (developing).
Montack,	Montgomery		Montack Mining Co., Albemarle, N. C.	Montack, gold. Open pit, refractory, steam; 10 stamps. S. F. Mully, supt.
New London,	Stanley		Jane Mining Co., T. J. Crowell, pres.; T. M. Crowell, secy. and T. J. Crowell, treas.; H. C. Crowell, mgr. and supt.	Cap. stk. \$5,000. Jane, gold. Shaft, 10,000 tons; free (steam, 10 stamps).
"	"		Parker Gold Mines Co., Ltd., London, Eng.; 5 Cornhill st.	James J. Judd, pres.; N. Goldham, secy. and treas.; Henry Judd, mgr. and supt.; Cap. stk. \$25,000. Parker, Union Sp. mgs, gold. Placer, open pit and shaft, free, steam and hydraulic, 10 stamps.
Ransom's Bridge, Franklin			Arthur Arrington, Lenoir, N. C.	Arthur Arrington, gold quartz. Placer, free.
"	"		S. G. Sturges.	W. F. Sturges, mgr. Port, gold. Placer, open pit, steam, 15 stamps.
Science Hill,	Randolph		John T. Lowe.	Cap. \$20,000. Bingham, gold.
Silver Hill,	Davieson		Silver Hill Mining Co., New York, N. Y.	Cap. \$100,000. Silver Hill, gold, silver, lead and zinc. Shaft, 3,000 tons; refractory, steam; 20 stamps. J. M. Peim, supt.

GRAPHITE

LOCATION OF MINE, OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Raleigh,		Wake	Tucker, Pelen & Wharton, 245 Broadway, N. Y.	Cap. stk. \$2,000. Horton, graphite. Slope, hand.

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Bessemer City	Gaston	Bessemer City Mining & Manufacturing Co., J. S. Carr, pres.; J. A. Smith, secy. and treas.; J. A. Pinch-		
Ry., King's	Mountain	back, mgr. and supt. Cap. stk. \$650,000. Ormond, Little Mount, Furman and Ore Hill, Bessemer,		
622.		Shafits, 12,000 tons; steam.		
Big Ore Bank	Lincoln	Detf & Reinhardt. Cap. \$21,000. Big Ore Bank, shaft and tunnel; steam; furnace.		
(P. O. Detf)	Ry., Iron			
Mountain 164.				
Burnsville	Yancey	Ray & Burton. G. D. Ray, mgr. Cap. \$20,000. Magnetite and corundum. Open pit, 1,000 tons; horse.		
Ry., Marion 622.				
Catawba	Catawba	J. A. Blackwelder. Catawba Valley Iron Works. Shaft and tunnel; water; furnace.		
Ry., 622.				
Cranberry	Mitchell	Cranberry Iron & Coal Co., Frank Elmstone, pres.; John S. Wise, secy. and treas.; C. H. Nimson, mgr.		
Ry., 2 1.		Cap. stk. \$2,000,000. Cranberry, magnetite. Tunnels and open pits, 2,000 tons; steam, air, electricity,		
		horse and hand, furnace, 3,000 tons. S. M. Pitman, supt.		
Dembury	Stokes	Carolina Iron Mining & Investment Co., W. B. Wills, pres.; G. E. Brodriek, secy. and treas.; H. B. Tilden,		
Ry., Walnut Cove 523.		mgr. Cap. stk. \$1,000,000. Magnetite. Open pit, 22,500 tons.		
King's Mtn.	Cleveland	Ormond Co., J. J. Ormond, mgr. Cap. stk. \$10,000. Chestnut Ridge, mica, iron and tin. Open pit;		
Ry., 622.		hand.		
Ore Hill	Chatham	North Carolina Steel & Iron Co., Greensboro, N. C., J. A. Odell, pres.; C. D. Benbow, secy. and treas.;		
Ry., 38.		J. D. Kase, mgr. and supt. Cap. stk. \$1,000,000. Ore Hill, hematite and magnetic. Open pit, 20,000		
		tons; steam and horse, furnaces.		
Pilot Mountain	Surry	North Carolina Steel & Iron Co., Greensboro, N. C., J. A. Odell, pres.; C. D. Benbow, secy. and treas.;		
Ry., 38.		J. D. Kase, mgr. and supt. Cap. stk. \$1,000,000. Pilot Mountain, hematite and magnetic. Shafts and		
		open pits, 20,000 tons; steam, furnaces.		
"	"	David W. Worth. Magnetite. Water.		
Rockford	Surry	North Carolina Steel & Iron Co., Greensboro, N. C., J. A. Odell, pres.; C. D. Benbow, secy. and treas.;		
Ry., 622.		J. D. Kase, mgr. and supt. Cap. stk. \$1,000,000. Rockford, hematite and magnetic. Shafts and open		
		pits, 20,000 tons; steam, furnaces.		
Seth	Granville	W. Raker & Co. Cap. \$10,000. Raker. Shaft, 20,000 tons.		
Ry., Oxford 622.				
South Toe	Yancey	E. Burnett. Burnett, men, iron, silver and lead. Slope, hand.		
Ry., Marion 622.				

MICA

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Bakersville	Mitchell	John Collis, Estabro, N. C. Cap. \$5,000. Murphy Rock. Open pit, 5 tons, hand.		
Ry., Marion 121, 622.				
"	"	Flat Rock Mining Co., Penland, N. C., Geo. H. Zimmerman, pres.; J. Milton Bailey, secy.; Isaac H.		
"		Bailey, treas.; J. Milton Ellis, mgr. Cap. stk. \$50,000. Flat Rock.		
"	"	J. L. Rorison & Co., Bason, Clonland and Carissa. Shaft, tunnel, slope and open pit, steam.		
Burnsville	Yancey	W. E. Gouge. Open pit, hand.		
Ry., Marion 622.				
Cashiers	Jackson	J. E. Rice. Mica and corundum. Hand.		
Ry., Walhalla, 8, 6, 622.				
Cowart	Jackson	John H. Smith. Wood. Open pit, hand.		
Ry., Webster 622.				
Cranberry	Mitchell	Western Carolina Mica Co., Plum Tree, N. C., Geo. A. Blood, pres.; H. A. North, secy.; S. Wm. Blood,		
Ry., 1 1.		treas.; W. Vance Brown, mgr. Cap. stk. \$50,000. Mica and feldspar. Steam.		
Cullowhee	Jackson	Hardin & Fordyce, Detroit, Mich., 621-623 Hammond Bldg., Wm. T. Hamlin, pres.; T. N. Fordyce,		
Ry., Webster 622.		Cap. \$100,000. Hornum Nagle, treas.; W. W. Helm, mgr. and supt. Cullowhee, mica and corundum. Slope,		
		tunnel and open pit, steam, water, horse, hand.		
Ellery	Marion	J. D. Moore. Pressley and Rocky Face. Shaft.		
Ry., Webster 622.				
Franklin	Marion	Eugene Munsell & Co., New York City, 218 Water St. Open; hand.		
Ry., Webster 622.				
"	"	C. G. Shepherd, Treas.; Beasley No. 2. Tunnel, hand.		
Grassy Creek	Mitchell	Asheville Investment Co., Asheville, N. C., 45 S. Main St., C. F. Griffling, pres. and mgr.; Geo. I. Parndley,		
(P. O. Spruce Pine)	Ry., Marion, Va., 622.	secy.; John C. Brown, treas. Cap. stk. \$200,000. Cook. Shaft and tunnel, hand.		
Ingalls	Mitchell	Jason E. Burleson. Horse, hand and steam.		
Ry., Cranberry 241.				
"	"	James G. Wiseman. Tunnel, hand.		
Ledget	Mitchell	John Wills. Cap. \$1,000. Howell. Shaft, hor.		
Ry., Marion 622, 121.				
Mica	Mitchell	M. D. Wiseman. Wiseman. Shaft, tunnel, hand.		
Ry., Marion 622, 121.				

MICA (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Plumtree Ry., Crummett 241.		Mitchell	Toe River Ground Mica Co., H. R. Jones, pres. and supt., Geo. H. Zimmerman, secy., T. B. Vance, treas., J. E. Warwick, mgr., 300 tons; water.	
South Toe Ry., Marion 121, 622.		Vancey	J. L. Gibbs, Burnsville, N. C., Cap. \$1,500. O'Brien. Shaft; horse and hand.	
Spence Pine, Ry., Marion 121, 622.		Mitchell	Irby & Gilman, Cap. \$12,000. Hazlock and Howell. 40 tons; steam.	
"		"	J. A. McDonald, Marion, N. C., Wm. McFee, mgr., Hawkins. Hand, stone mill.	
Webster Ry., 622.		Jackson	C. P. Bryson, Jumbo, Shelton, Mt. Bryson. Tunnel, open pit, hand.	
"		"	M. Buchanan. East Fork. Open pit and shaft.	

NICKEL

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Webster Ry., 622.		Jackson	Prof. Limonier. Webster, nickel and chromium. Shaft, tunnel, slope, open pit, hand. J. J. Wild, supt.	
"		"	Pinekey & Willis. Pinekey, nickel and chrome iron. Open pit.	

PHOSPHATE

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Nayassa P. O. Wilmington Ry., 617.		Burnswick	Nayassa Gumbo Co., Wilmington, N. C., col. Water and Princess sts. Donald MacRae, pres.; Donald MacRae jr., secy. and treas. Cap. \$1k, \$20,000. 20,000 tons; steam mill, 1,000 tons. Chas. E. Borden, supt.	

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CALCINATORS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Egypt Depot Ry., 614		Chatham	Egypt Brownstone Co., Samuel A. Henszey, pres. Egypt, brownstone. Open pit, developing.	
Iron Station Ry., 101.		Lincoln	J. A. Brown. Open pit, hand, mill.	
Mount Airy Ry., 185.		Steffy	Mount Airy Granite Co., Greensboro, N. C., R. Perry Gray, pres.; J. W. Fry, secy.; Thos. Woodruffe, treas. and mgr. Cap. \$1k, \$6,000. Mount Airy, granite. Steam mill. Wm. A. Woodruffe, supt.	
Salisbury Ry., 622.		Bowen	D. M. Bodger. Fourth Organ Church, N. C., Brown Rock, white granite. Open pit, hand.	
"		"	Stone Mountain Granite & Improvement Co., W. L. Kutz, pres. and mgr. J. Samuel McDouglas, secy. and treas. Cap. \$1k, \$8,000. Stone Mountain, white granite. Slope, 10,000 tons; steam.	
"		"	J. L. Wyatt Granite Millstone Manufacturing Co., Cap. \$10,000. Wyatt's Granite Mountain, white and gray granite. Open pit and slope, hand. J. L. Wyatt, supt.	
Shuford Ry., 28.		Moore	Carolina Brownstone Co., Norfolk, Va., Main St. J. W. Hunsdale, pres.; Chas. M. Cassell, secy. and treas. Cap. \$1k, \$10,000. Carolina, brownstone. Slope, 12,000 tons; steam. J. E. McVey, supt.	
"		"	Southern Red & Brown Stone Co., Philadelphia, Pa., S. T. Ford. American and Diamond sts., Lockard Stew- art, pres.; John R. Stewart, secy. and treas. Cap. \$1k, \$5,000. Red and brown stone. Open pit steam, developing. Mable Richardson, supt.	
Summitfield Ry., 612		Gaston	Angus M. Smith, Greensboro, N. C., P. O. Box 40. Granite, 1,000 tons. Evans Smith, supt.	

SEE ALSO SUPPLEMENTARY LIST

NORTH DAKOTA

COAL—BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Homer	Moquet	Homer Coal & Mining Co., Jersey City, N. J., 101 Arlington av., Josephus Plenty, presd. and mgr.; Charles Plenty, secy., Wm. A. Rosenbaum, treas., Cap. stk., \$100,000. Homer. Tunnel, 100,000 tons; electricity and steam.		
Lehigh	Stark	Lehigh Coal Mining Co., Geo. O. Erskine, presd., R. E. Fleming, secy.; A. C. McGillivray, treas. and mgr. Cap. stk., \$200,000. Lehigh. Tunnel, 30,000 tons; horse, F. Reddy, supt.		
Sims	Morton	North Dakota Coal & Power Co., Mandan, N. Dak., H. R. Lyon, presd. and treas.; H. T. Wadson, secy., mgr. and supt. Cap. stk., \$50,000. Slope, 20,000 tons; horse.		
"	"	H. T. Wadson, Cap. \$2,000. Slope, 20,000 tons; horse.		

SEE ALSO SUPPLEMENTARY LIST

OHIO

CEMENT

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF PRODUCT, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, CEMENT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Centre	Columbiana	Ohio Cement Co., A. G. Smith, presd. and mgr.; M. P. Child, secy., Cap. stk., \$250,000. Cement, rock. Tunnel, 8,000 tons; steam, mill, 10,000 tons.		
Gypsum	Ottawa	Marsh & Co., Sandusky, Ohio, Shaine Block, Cap. \$200,000. Marsh. Open pit, 25,000 tons; steam, hand; mill, Henry German, supt.		
Sandusky	Eric	Sandusky Portland Cement Co., Cleveland, Ohio, 711 Perry-Fayne Bldg., Dan. P. Earls, presd., A. St. J. Newberry, secy. and treas.; Prof. S. B. Newberry, mgr. Cap. stk., \$500,000. Martins Point, marl, 20,000 tons; steam, mill, 15,000 tons.		

COAL—ANTHRACITE

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Cambridge	Guernsey	J. H. Buckingham, Milnor. Open pit, 15,000 tons.		
Massillon	Stark	Drake Coal Co., Cleveland, Ohio, Walsure Bldg., Reinhard Keller, presd. and mgr.; J. W. Warwick, secy. and treas., Cap. stk., \$10,000. Drake. Slope, 60,000 tons; steam, C. A. Kouth, supt.		
"	"	Massillon City Coal Co., J. A. Bessler, presd., J. F. Hooch, secy. and treas., Wm. Furman, mgr. Cap. stk., \$60,000. Massillon City. Shaft, 100,000 tons; steam.		
"	"	Massillon Elm Run Coal Co., J. A. Bessler, presd., J. F. Hooch, secy., H. Hulper, treas., J. A. Wilson, mgr. Cap. stk., \$90,000. Elm Run. Shaft, 100,000 tons; steam.		
Toronto	Jefferson	Jefferson Fire Clay Co., Cap. \$50,000. Shaft, 5,000 tons; steam, D. H. Kerr, supt.		

COAL—BITUMINOUS

LOCATION OF MINE, RAILROAD, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND COUNTY		
Akron	Summit	Lake View Coal Co., John Todd, pres't, A. J. McCarthy, sec'y, and treas., George F. Stambaugh, mgt., Cap. stk. \$200,000, Lake View, Shaft, 30,000 tons, steam, Wm. Phillips, supt.	
Allamore	Stark	E. S. Davis (local), 116 Cambridge st., Waukegan, Shaft, steam.	
"	"	J. J. Robertson (local), Shaft, 3,000 tons; steam.	
Allamore, Jr.	Maioning (P. O. Alliance, Ry., 763.)	Henry L. Bandt, Cap. \$900, Bandy, Slope, 1,875 tons, horse.	
Armstrong's Mills	Belmont	Captain Coal Co., Cap. stk. \$10,500, Captain, Shaft, 5,000 tons, steam, M. A. Gates, supt.	
Balfie	Tuscarawas	James Connor, Drift, developing.	
Balfie	Ry., 173.		
Barnock	Belmont	Wm. Taylor, local, Tunnel, hand.	
Barnock	Ry., Bruce 171.		
Barlow	Belmont	John H. Benham, Cap. \$2,000, Maple Hill, Drift, 5,500 tons, horse.	
"	"	W. S. Taggart, Cap. \$6,000, Taggart, Drift, 25,000 tons, horse.	
Beidler	Tuscarawas	C. J. Nungesser, Cap. \$5,000, Walton Ridge, Open pit, 12,000 tons, horse, G. Alfelder, supt.	
Beidler	Ry., Barnhill 171.		
Bellamy	Belmont	W. G. Barnard, Cap. \$25,000, Open pit, horse.	
"	"	Bellamy Nat. Works, J. R. McCarthy, pres't, A. B. Carter, sec'y, and treas., Cap. stk. \$750,000, Slope, 483 tons, hand, Wm. Turnbull, supt.	
"	"	R. Heslop & Son, Cap. \$1,000, Belmont, Tunnel, 7,500 tons, horse, W. Heslop, supt.	
"	"	Morgan & Gottell, Morgan, Tunnel, 25,000 tons, horse, George T. Morgan, supt.	
"	"	G. O. Robinson, Georgetown, Ohio, Cap. \$5,000, Tunnel, horse.	
"	"	Louis Rocker (local), Cap. \$3,000, Bellamy, Slope, 14,000 tons, steam, John Harris, supt.	
"	"	James Turnbull & Co., Cap. stk. \$10,000, Schick, Open pit, 14,000 tons, horse, Wm. O'Malley, supt.	
Beloid	Maioning	Mark Godwits, local, Cap. \$100, Shaft, Slope, 15,000 tons, horse.	
"	"	Youngstown Tying, Brid. Co., Youngstown, Ohio, 504 Belmont av., L. K. Biehn, supt., Treas. Shaft, sec'y, A. B. Lutz, Treas., Frank Barber, mgt., Cap. stk. \$5,000, Beloid, Shaft, 6,000 tons, steam, Frank Barber, supt.	
Bergholz	Jefferson	J. P. George & Co., Cap. \$10,000, Bergholz, Drift, open pit, 14,000 tons, steam, S. Scholchler, supt.	
Bergholz	Ry., 13.		
Blakes Mills	Tuscarawas	Benny Miller, Gascon, Drift, 15,000 tons, horse, S. Miller, supt.	
"	"	Warner Bros., local, Stone, Open pit, 15 tons, horse.	
Boardman	Maioning	Foster Coal Co., Youngstown, Ohio, 2 Public Square, C. H. Ayres, supt., Treas., John Shaw, sec'y, and treas., Tippecanoe, Shaft, 10,500 tons, steam, J. Henry, supt.	
Boardman	Ry., Youngstown 383, 307, 363, 391, 392.		
Bradbury	Meigs	Thomas B. King, Drift, 18,000 tons, horse.	
Bradbury	Ry., Middleport 181, 314, 363.		
Brashers	Hocking	Consolidated Coal & Mining Co., local, Ohio, 60 W. Taylor st., Alex. McDonald, pres't, O. C. Ekin, sec'y, E. E. Brown, Treas. and mgt., Cap. stk. \$25,000, Brashers, Tunnel, 17,000 tons, steam, M. E. Shaffer, supt.	
Bridgeport	Belmont	Milton McConamieghy, local, Cap. \$1,000, Open pit, 17,000 tons.	
Bridgeport	Ry., 173, 363, 365.		
Brilliant	Jefferson	Brilliant Steel & Iron Co., Wheeling, W. Va., George & W. Ward, pres't, Alex. Undergraff, sec'y, and treas., A. U. Wilson, mgt., Cap. stk. \$150,000, Brilliant, Shaft, 125,000 tons, steam, Richard H. Jones, supt.	
Broadwell	Athens	Federal Mining Co., Broadwell, Slope, horse.	
Broadwell	P. O. Wakeup Ry., 70.		
Buchter	Athens	Columbus & Hocking Coal & Iron Co., Columbus, Ohio, 1021 E. Pine Bldg., J. O. Moss, pres't, S. A. McMurry, sec'y, W. J. Robinson, Treas., R. H. Johnson, supt., and gen'l mgt., No. 2, 1,000 tons, 25, Drift, 18,000 tons, steam, C. C. Gray, and 1,000 tons, supt.	
Buchter	Ry., 181.		
Buttalo	Guernsey	Cambridge & Lytle Coal Co., Fairview, Ohio, A. H. Johnson, pres't, L. K. Moss, sec'y, Treas. and mgt., Hartford, Shaft, 120,000 tons, steam, J. C. H. supt.	
Buttalo	Ry., Hartford 26.		
Byesville	Guernsey	James A. Anderson, Cleveland, Ohio, 29 Superior st., Shaft, 160,000 tons, steam, W. A. Smith, supt.	
"	"	Cambridge & Lytle Coal Co., A. H. Johnson, pres't, L. K. Moss, sec'y, Treas. and mgt., Cap. stk., \$100,000, Trial Run, Shaft, 150,000 tons, steam, G. H. Harrison, supt.	
"	"	Enterprise Coal Co., local, Shaft, team.	
"	"	Huntington Coal Co., Cleveland, Ohio, Western Reserve Bldg., Cap. \$10,000, Cambridge, Shaft, 184,000 tons, steam, George Harrison, supt.	
"	"	Pioneer Coal Co., Cleveland, Ohio, 600 Bank and Superior sts., S. Gray, supt., C. S. Barnett, sec'y and Treas., Cap. stk. \$100,000, Pioneer, Slope, 200,000 tons, W. H. Davis, supt.	
Cambridge	Guernsey	Ohio Coal Co., A. J. Warner, pres't, and Treas., Cambridge, S. Jones, sec'y, S. C. Hart, mgt., Cap. stk. \$100,000, N. Jackson, Market 112, Greenwood, Shaft, 100,000 tons, steam, J. R. Oast, supt.	
Cambridge	Ry., 112, 173.		

COAL-BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWNS	AND	COUNTY.	
Cambridge		Guernsey	Standard Coal Co., Columbus, Ohio, 26 Wesley Block, 101 N. High st., D. Mathews, prest.; Charles Batzel, secy. and treas. Cap. stk. \$100,000. Standard, No. 3. Open pit, 115,000 tons; horse. O. P. Mathews, supt.
Cambridge		Guernsey	(Continued.)
Campbell		Lawrence	Campbell Iron Co., Ironton, Ohio, J. H. Moulton, prest., H. H. Campbell, secy. and treas.; J. W. Campbell, mgr. and supt. Cap. stk. \$100,000. Mt. Vernon Furnace. Open pit, 5,000 tons; hand.
Canal Dover		Tuscarawas	Ben Bevan, Wagner. Tunnel, 5,000 tons; horse.
"		"	Crown Fire Clay Co., J. F. Townsend, prest.; H. B. Manton, secy. and treas.; Thomas Kemp, mgr. Cap. stk. \$100,000. Tunnel, 7,000 tons; horse. Martin Clappert, supt.
"		"	Dover Fire Brick Co., Cleveland, Ohio, 44 Mercantile Bank Bldg., C. S. Barrett, prest. and treas.; George H. Gibson, secy.; P. Arnold, mgr. Cap. stk. \$100,000. Barrett. Tunnel, 1,500 tons. George Bohan, supt.
"		"	James T. Patton (dead). Open pit, 2,100 tons.
Canal Fulton		Stark	Ridgway Burton Co., Massillon, Ohio, J. P. Burton, prest. and treas.; D. Johns, secy. Cap. stk. \$30,000. Fern Brook. Shaft, 37,500 tons; steam. Wm. Crookston, supt.
Canton		Stark	H. S. Belden, 148 S. Market st., Orchard Hill. Slope, 6,000 tons; steam.
"		"	S. D. Price. Cap. \$2,000. East Hill. Slope, 4,000 tons; horse. S. L. Jenkins, secy.
"		"	Christian Warstler, Oberlin. Slope, 1,500 tons; water. Chas. L. Warstler, supt.
Carbondale		Athens	P. J. Becker. Cap. \$5,000. Trace Run. Tunnel, 6,000 tons; horse.
Carbont		Hooking	Columbus & Hooking Coal & Iron Co., Columbus, Ohio, Board of Trade Bldg., J. O. Moss, prest.; S. A. McManis, secy.; W. J. Redington, treas.; R. H. Johnson, v.-prest. and gen. mgr. No. 21. Drift, 60,000 tons; steam; horse. Vint Ferguson, supt.
Carrollton		Carroll	Franklin Coal Co., Cleveland, Ohio, 202 Society Savings Bldg., Z. Doll, prest. and mgr.; C. W. Balne, secy.; F. K. Moore, treas. Cap. stk. \$25,000. Scott. Open pit, 30,000 tons; horse. Irvin Baysinger, supt.
Centreville		Gallia	Thos. E. & E. D. Evans (dead). Tunnel, 600 tons; hand. Thomas E. Evans, supt.
"		"	(P. O. Thurman) Ry. Oak Hill 42, 156.
"		"	D. D. Morgan (dead). Cap. \$2,000. Open pit; hand.
Clinton		Summit	Fox Lake Coal Co., Cleveland, Ohio, 706 Western Reserve Bldg., J. P. Burton, prest.; E. E. Barney, secy.; J. B. Zerbe, treas. and mgr. Cap. stk. \$30,000. Clover Hill. Shaft, 250,000 tons; steam. John Featherstone, supt. Messenger. Shaft, 150,000 tons; steam. George J. Huber, supt.
Coaldale		Muskingum	Geo. & S. E. Porter (dead). Tunnel, 1,500 tons; hand.
Coal Grove		Lawrence	Phillip Carey (dead). Tunnel, 5,600 tons; hand.
"		"	John Peters (r.). Cap. \$10,000. Coal Grove. Tunnel, 20,000 tons; horse. C. Palmer, supt.
Coalton		Jackson	Boekey Coal Co., M. Kishner, mgr. Cap. \$13,000. Drift, 10,000 tons; horse.
"		"	Goshline & Barlow, Toledo, Ohio, 422 Madison st., Victor. Slope, 5,000 tons; horse. T. J. Evans, supt.
"		"	John F. Hall. Cap. \$8,000. Coalton. Slope, drift, 24,000 tons; steam. N. Cameron, supt.
"		"	Hippel Coal Co., Cap. stk. \$10,000. Hippel. Slope, 30,000 tons; steam. W. D. Hippel, supt.
"		"	W. A. Jones. Garfield. Open pit, 400 tons; horse.
"		"	Poling Coal Co., Dayton, Ohio, H. J. Poling, prest. Cap. stk. \$10,000. Tunnel, 12,000 tons; horse. Wm. Ellis, supt.
"		"	Southern Ohio Coal & Iron Co., Dayton, Ohio, 302 E. Third st., A. A. Thomas, prest.; W. L. Caten, secy.; Treas. and mgr. Cap. stk. \$20,000. Tunnel, 60,000 tons; steam; horse. F. D. McKinnis, supt.
Coleman		Columbiana	New Lisbon Mining Co., U. C. Hatch, prest., W. H. Warner, treas.; Thomas Prosser, mgr. and supt. Cap. stk. \$5,000. Coleman. Slope, 25,000 tons; steam.
"		"	Union Fire Clay & Stone Co., C. Coleman, prest.; C. S. Coleman, secy., treas. and mgr. Cap. stk. \$10,000. Coleman. Tunnel, 3,000 tons; hand. J. T. Griffiths, supt.
Conesville		Coshocton	David Davis. Cap. \$40,000. Conesville. Tunnel, 60,000 tons; horse.
Congo		Pickaway	Congo Coal Mining Co., Columbus, Ohio, H. D. Turney, prest.; T. W. Guthrie, secy.; G. S. Beeson, treas.; Thomas Corcoran, mgr. Cap. stk. \$250,000. Congo. Shaft, 300,000 tons; electricity. Thomas Corcoran, supt.
Cornelville		Muskingum	Columbus & Brush Creek Coal Co., Columbus, Ohio, H. S. Maynard, prest.; B. L. Maynard, secy. and treas. Cap. stk. \$20,000. Brush Creek. Slope, 60,000 tons; horse. Bruce Mauck, supt.
Corning		Portage	Sunday Creek Coal Co., Columbus, Ohio, Board of Trade Bldg., J. S. Morton, prest.; J. F. Stone, secy. and treas.; J. E. Martin, mgr. Cap. stk. \$100,000. Sunday Creek and 3 others. Shaft, 700,000 tons; steam. Fred Miller, supt.
Corwin		Jackson	Tom Corwin Coal Co., Dayton, Ohio, 235 S. Ludlow st., S. J. Patterson, prest.; H. J. Dreese, secy.; J. A. Murphy, treas.; J. W. Lowe, v.-prest. Cap. stk. \$30,000. Tom Corwin. Shaft, 78,362 tons; steam. William E. Davis, supt.
Coshocton		Coshocton	C. L. Cassingham. Cap. \$175,000. Tunnel, 5,000 tons; horse.
"		"	Diamond Coal Co., J. W. Cassingham, prest.; C. L. Cassingham, secy., treas., mgr. and supt. Cap. stk. \$10,000. Diamond. Drift, 45,000 tons; horse.

COAL—BITUMINOUS—CONTINUED.

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,240 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Coshocton	Coshocton	Wm. C. Hay, Cap. \$12,000. Tunnel, 30,000 tons; horse. Charles West, supt.		
"	"	(Continued.)		
"	"	Thomas Leer. Tunnel, 25 tons; horse.		
"	"	Morgan Run Coal & Mining Co., Cleveland, Ohio, 11 Bratenahl Bldg. F. C. Gott, prest. and mgr.; H. D. Dennis, secy. and treas. Cap. \$tk. \$50,000. Morgan Run. Tunnel, 50,000 tons; electricity. D. P. Jones, supt.		
Coventry Twp.	Summit	Summit Bank Coal Co., Cleveland, Ohio, 121 Superior st. Isaac Newton, mgr.; Summit. Slope, 20,000 tons; steam. James H. Ball, supt.		
Creda	Anton	John Moreland (local). Cap. \$1,500. Tunnel, 800 tons; hand.		
Crooksville	Perry	Star Coal Co., Shawnee, Ohio. John Baillie, prest. and supt.; James L. Baillie, secy.; A. Garbinger, treas.; R. W. Jones, mgr. Cap. \$tk. \$10,000. Star. Tunnel, horse; developing.		
"	"	Zanesville Coal Co., Zanesville, Ohio, 42 N. Fourth st. O. F. McKim, prest.; F. E. Higgins, secy.; J. R. W. Vanden, treas. Cap. \$tk. \$100,000. Deaf, horse. Thomas Ope, supt.; developing.		
Cumberland	Chertsey	M. B. Hunter. Slope, 50 tons; hand.		
Dell Roy	Carroll	S. Allen's Sons, Cleveland, Ohio, 11 Bratenahl Bldg. Empire No. 1. Tunnel, horse; F. M. White, supt.		
Dempson	Tuscarawas	Monarch Coal Co., Canton, Ohio, McKinley Bldg. Mrs. Mary A. Van, prest.; J. A. Wann, secy. and treas.; F. Reith, mgr. Cap. \$tk. \$75,000. Monarch. Tunnel, 10,000 tons; steam. Sebastian Shaine, supt.		
"	"	C. M. Totten (local). Open pit, horse; developing.		
Dillon	Muskingum	Weaver, Getz & Co., Chicago, Ill., 217 Dearborn st. Franklin. Slope, 150,000 tons; horse. W. F. Reader, supt.		
Dillonvale	Jederson	Wheeling, Lake Erie & Pittsburgh Coal Co., Toledo, Ohio. W. R. Woodford, prest.; Doxney Adams, secy. and treas. Cap. \$tk. \$1,000,000. Dillon. Tunnel, 375,000 tons; horse. George Atherton, supt.		
Dou	Belmont	August Hirschel. Open pit, 2,000 tons; horse.		
Doylesburg	Wayne	Seiberling, Miller & Co., local. California. Deft, 2,000 tons; horse. James S. Atrock, supt.		
E. Fairfield	Columbiana	Wm. Moore (local). Moore. Shaft, 1,500 tons; horse.		
E. New Waterford	Scioto	Frank Bros. (local). Cap. \$1,000. Dry Run. Tunnel, 100 tons.		
E. Palestine	Columbiana	East Palestine Coal Co., A. Hicks, prest.; A. W. Hicks, treas.; James Sutherland, mgr. and supt. Cap. \$tk. \$1,000. Carbon Hill. Open, 75,000 tons; horse.		
"	"	John Jones (local). Chamberlain. Open pit, 750 tons; horse.		
"	"	State Line Coal Co., James Mullins, mgr. Cap. \$tk. \$50,000.		
"	"	James Sutherland, Prospect Hill. Slope, 60,000 tons; steam. George D. Sutherland, supt.		
Elko	Anton	Madara Coal Co., Chillicothe, Ohio. Madara. Shaft, steam. John Hall, supt.		
"	P. O. and Ry. Station	43.		
Empound	Belmont	D. R. Bently (local). 500 tons.		
Flushing	Belmont	Joseph Baily (local). Open pit, 50 tons.		
"	"	Flushing Coal Co., Theo. S. Peyton, prest. and mgr.; Isaac D. Linton, secy. and treas. Cap. \$tk. \$20,000. Tunnel, 100,000 tons; compressed air. W. G. Williams, supt.		
"	"	Moses Still (local). Tunnel, 80 tons; horse.		
"	"	Randall & Co., Cap. \$2,000. Flushing. Slope, 14,000 tons; horse; gas ret.		
Franklin Sta.	Coshocton	Columbus Coal & Mining Co., 34 N. High st. F. N. Barnes, prest. and mgr.; C. F. Barnes, secy. and treas. Cap. \$tk. \$75,000. Franklin. Tunnel, 24,875 tons; horse; F. Barnes, supt.		
Franksville	Muskingum	T. J. Buchanan (local). Tracyburg. Open pit, 2,454 tons; hand.		
Gen. Leon	Athens	Chicago & Ohio Coal & Car Co., Chicago, Ill., 110 Chamber. of Commerce Bldg. S. H. Graves, prest.; F. C. Elliott, secy. and treas.; F. M. Fitch, mgr. Cap. \$tk. \$1,000,000. Gen. Leon. Slope, 100,000 tons; steam. Thomas N. Black, supt.		
Gen. Roy	Jackson	Ash Coal Co., Fra. A. Strohenger, prest. and gen. mgr.; T. L. Dwight, A. prest.; M. D. Jones, secy. and treas. Cap. \$tk. \$80,000. Gen. Shaft, 5,000 tons; steam.		
"	"	Jones & Morgan. Cap. \$tk. \$1,000. Slope, 21,494 tons; steam. D. L. Jones, supt.		
"	"	Northern Coal Co., M. E. Morgan, secy.; Moses Morgan, treas.; D. C. Jones, mgr. Cap. \$tk. \$1,000. Northern. Shaft, 25,800 tons; steam. John M. Morgan, supt.		
"	"	Standard Coal Co., M. E. Morgan, secy.; Moses Morgan, treas.; D. C. Jones, mgr. Cap. \$tk. \$25,000. Standard. Shaft, 12,775 tons; steam. D. L. Jones, supt.		
Greensburg	Athens	Sedalia Coal Co., A. F. Hart, secy. and treas.; Wm. Belmont, mgr. Cap. \$tk. \$4,000. Sedalia. Open pit, 15,000 tons; steam.		
Grove	Hooking	Rand Iron Co. (local). F. B. Baily, prest.; F. B. M. L. Hines, secy.; C. R. B. Co. (local). Tunnel, 22,000 tons; horse.		

COAL, BITUMINOUS—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OYERS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Gale	Continued.	Hocking	Columbus & Hocking Coal & Iron Co., Columbus, Ohio, Board of Trade Bldg. J. O. Moss, pres.; S. A. McManigal, secy.; W. J. Redington, treas.; R. H. Johnson, v.-pres. and gen. mgt.; Nos. 43 and 45. Drift, 120,000 tons, steam, horse; Vint Ferguson, supt.	
Green		Mahoning	David Coy (local). Sears. Slope, 3,000 tons; horse.	
Green		Summit	Joseph Whittier (local). Cap. \$1,000. Drift, 500 tons; horse.	
Greentown		Stark	Lewis E. Smith. Cap. \$10,000. Summit Hill. Drift, 30,000 tons; horse. Peter Deereff, supt.	
Grafton		Columbiana	Nelson Bronson. Cold Run. Slope; horse.	
Hamley Run		Athens	Chicago & Ohio Coal & Car Co., Chicago, Ill., 1016 Chamber of Commerce Bldg. S. H. Graves, pres.; F. C. Elliott, secy. and treas.; E. M. Lane, mgt. Cap. stk. \$400,000. Hamley Run. Shaft, 100,000 tons; steam. Thomas N. Black, supt.	
Hanging Rock		Lawrence	Means, Kyle & Co. E. B. Willard, pres.; James Bull, secy. and treas.; Hugh Shields, mgt. and supt. Cap. stk. \$500,000. New Castle. Tunnel, 5,000 tons; horse.	
Hawk's		Vinton	Keck & Stevenson. Cap. \$3,000. Star No. 2. Tunnel, 2,000 tons; horse. E. W. Keck, supt.	
Hemlock		Perry	Columbus & Shawnee Coal Co., Columbus, Ohio, Clinton Bldg. C. G. Kearns, pres. and supt.; C. C. Collins, secy. and treas. Cap. stk. \$15,000. Hemlock. Slope, 75,000 tons; steam.	
Hinking		Gallia	C. A. Carl's Sons. Cap. stk. \$15,000. Carl. Drift, 17,800 tons; horse. H. V. Carl, supt.	
Hollister		Athens	Conright, Kiefer & Co., Columbus, Ohio, Rooms 3 to 7 Clinton Bldg. Shaft, 20,000 tons; steam. D. C. Thomas, supt.	
Hopewell		Muskingum	Frank Deck (local). Tunnel, 1,600 tons; hand.	
"		"	S. R. Porter (local). Cap. \$8,000. Tunnel, 700 tons; hand.	
Howenstone		Stark	Railway Burton Co., Massillon, Ohio. J. P. Burton, pres. and treas.; D. Johns, secy. Cap. stk. \$30,000. Willow Spring. Slope, 23,000 tons; horse. Edward Jones, supt.	
Hubbard		Trumbull	P. Jacob & Son, Youngstown, Ohio, P. O. Box 272. Jacob. Shaft, steam. Orrin Jacob, supt.	
Irondale		Jefferson	Wm. Lacey, Cleveland, Ohio, 77 and 79 River st. Cap. \$100,000. Lacey. Open pit, 12,000 tons; steam, breaker.	
Ironton		Lawrence	Belmont Iron Works Co., John G. Peebles, pres.; S. G. Gilliland, secy. and treas.; B. H. Barr, v.-pres. and gen. mgt. Cap. stk. \$25,000. Belton. Tunnel, 35,000 tons; horse. John W. Farmer, supt.	
"		"	Joe Gillen. Tunnel, 5,000 tons; hand.	
"		"	James Allen Rechey, 307 S. Third st. Cap. \$5,000 (local). Tunnel, 10,000 tons; hand.	
"		"	W. F. Wilson, 44 W. Fifth st. Cap. \$4,000 (local). Tunnel, 641 tons; hand.	
Jackson		Jackson	Chapman Coal Co., H. L. Chapman, pres. and mgt.; C. J. Benton, secy. Cap. stk. \$100,000. Grace, Chapman, Springfield and 3 others. Slope, shaft, tunnel, 125,000 tons; steam. John E. Hayes, supt.	
"		"	Emma Coal Co., Ed. H. Ziehlers, pres.; Edwin Jones, treas. and supt. Cap. stk. \$50,000. Emma. Shaft, 3,000 tons; horse.	
"		"	Globe Iron Co., Eben Jones, pres.; J. E. Jones, secy.; Elias Crandall, gen. mgt.; L. T. Murlin, mgt. Cap. stk. \$75,000. Globe, Huron. Shaft, 5,000 tons; hand.	
"		"	Goshine & Barlow, Toledo, Ohio, 422 Madison st. Price. Slope, 40,000 tons; horse. W. H. Owens, supt.	
"		"	Jackson Hill Coal Co., Ed. H. Zierhorst, pres.; W. E. Keenan, secy.; Edwin Jones, treas. and mgt. Cap. stk. \$50,000. Jackson Hill. Drift, 21,000 tons; horse. John D. Richards, supt.	
"		"	Mek-Rerack Bros. Cap. \$15,000. Slope, 15,000 tons; steam. James Harper, supt.	
"		"	Ohio Coal Co., Ira A. Sternberger, pres. and mgt.; H. S. Willard, secy. and treas. Cap. stk. \$200,000. Ohio. Slope, 30,000 tons; steam. N. M. White, supt.	
"		"	Price Bros. Cap. \$5,000. Drift, 4,000 tons; horse. J. E. Price, supt.	
"		"	J. N. Simpson. Cap. \$1,500. Open pit, 5,000 tons; hand.	
"		"	Star Furnace Co., B. Kahn, pres.; Charles O. Brown, secy.; L. V. Brown, mgt. Cap. stk. \$60,000. Star No. 2. Shaft, 5,000 tons; steam, compressed air. Henry Price, supt.	
Jeddo		Jefferson	D. C. Lindley (local). Tunnel, 6,250 tons.	
"		"	D. A. Moreland (local). Open pit, 400 tons; hand.	
Jordon		Jackson	Southern Ohio Coal & Iron Co., Dayton, Ohio, 32 E. Third st. A. A. Thomas, pres.; W. L. Caten, secy. and treas. Cap. stk. \$500,000. No. 2. Tunnel, 1,000 tons; horse. R. D. Thomas, supt.	
Junction City		Perry	John Green. Cap. \$2,000 (local). Tunnel, 8,000 tons; hand.	
"		"	Jerome Rowe (local). Tunnel, 320 tons; hand.	
Kittanning		Hocking	Raccoon Coal Co., L. A. Culver, pres. and mgt.; C. C. Weir, secy. and supt. Cap. stk. \$200,000. Raccoon. Tunnel, 50,000 tons; steam, horse.	

COAL—BITUMINOUS—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Krumroy Ry. 78.		Summit	C. H. Gregg (local). Gregg. Shaft, horse-developing.	
Lathrop Ry. 766.		Athens	Black Diamond Coal & Coke Co., Columbus, Ohio, Board of Trade Bldg., Robert W. Gilbert, pres., Milton Hopkins, secy., J. H. Earnshaw, treas. and mgt., Cap. \$4,800,000. Black Diamond. Tunnel, electricity, breaker, 50 coke ovens, capacity 15,000 tons developing. James Fox, supt.	
"		"	McKinney Coal & Coke Co., Zanesville, Ohio, 42 N. Fourth st., O. F. McKinney, pres. and mgt., F. E. Higgins, secy. and treas., Cap. \$1,000,000. Slope, steam developing. Thomas Ope, supt.	
Laurelton Ry. Portland Sta. 563.		Jefferson	Wheeling, Lake Erie & Pittsburg Coal Co., Toledo, Ohio, W. R. Woodford, pres., Downer Adams, secy. and treas., Cap. \$1,000,000. Laurelton. Tunnel, 15,000 tons, horse. George Atherton, supt.	
Leesville Ry. 806.		Carroll	McCreary & Moore (local). Ball. Open pit, 1,679 tons, hand. G. C. McCreary, supt.	
"		"	A. Preston (local). Open pit, 600 tons, hand.	
Longstreth Ry. 181.		Hocking	Columbus & Hocking Coal & Iron Co., Columbus, Ohio, Board of Trade Bldg., J. O. Moss, pres., S. A. McManis, secy., W. J. Redington, treas., R. H. Johnson, v. pres. and gen. mgt., No. 13. Drill, 60,000 tons, steam, electricity. Vint. Ferguson, supt.	
Lyonsdale Ry. 164.		Perry	M. Moenan. Cap. \$10,000. Lyonsdale. Tunnel, 3,000 tons, horse.	
McArthur Ry. 181.		Vinton	Benjamin Newlin (local). Tunnel, 172 tons, horse.	
McMansville Ry. 42.		Perry	Crawford, Gayer Bros. & Co. Cap. \$1,000. Eagle. Tunnel, horse-developing. Wm. Gayer, supt.	
McLurey Ry. 164.		Perry	J. H. Jones. Cap. \$15,000. Beech Grove. Tunnel, 3,719 tons, horse. George Savage, supt.	
Malvern Ry. 175.		Carroll	Phony Fire Clay Co., C. A. Weaver, pres., R. Roberts, secy. and treas., Samuel Hodgkinson, mgt., Cap. \$1,250,000. Phony. Slope, 1,500 tons, hand.	
Manchester (P.O. Akron) Ry. Clinton 169, 42, 564, 593.		Summit	Brewster Coal Co., Akron, Ohio, 700 S. Main st., Alexander Brewster, pres., A. K. Brewster, secy. and treas., A. A. Brewster, mgt., Cap. \$1,000,000. Turkeyfoot. Shaft, 50,000 tons, steam. John F. Meacham, supt.	
Martins Ferry Ry. 171, 175.		Belmont	Gaylord Coal Co., C. Edwards, pres., Theodore Snodgrass, secy. and treas., Donald Lewis, mgt., Cap. \$1,200,000. Open pit.	
Massillon Ry. 171, 585, 806.		Stark	Howells Coal Co., Anthony Howells, pres. and mgt., John C. Albright, secy., J. D. Wether, treas., Cap. \$1,000,000. Anderson. Shaft, 10,000 tons, steam. Fernald Evans, supt.	
"		"	F. G. Krane & Co., con. Sherill and Prospect sts., West Massillon. Shaft, 30,000 tons, steam.	
"		"	Massillon Pigeon Run Coal Co., A. Howells, pres. and mgt., F. S. Howells, secy., J. D. Wether, treas., Cap. \$1,000,000. Pigeon Run. Shaft, 1,000 tons, steam. A. H. Owens, supt.	
"		"	John Moore. Bridgeport. Tunnel, 1,150 tons, hand.	
"		"	Upper Pigeon Run Coal Co., W. K. I. Warwick, pres. and treas., Reinhard Keller, secy., mgt. and supt., Cap. \$1,000,000. Upper Pigeon Run. Shaft, steam-developing.	
"		"	Warwick Coal Co., Reinhard Keller, pres., mgt. and supt., W. K. I. Warwick, secy. and treas., Cap. \$1,000,000. Warwick. Shaft, steam-developing.	
"		"	Wheeling, Lake Erie & Pittsburg Coal Co., Toledo, Ohio, Cherry st., W. R. Woodford, pres., Downer Adams, secy. and treas., Cap. \$1,000,000. Forrest. Shaft, 17,000 tons, horse. R. H. Wamyer, lt. supt.	
Middleport Ry. 181, 341, 353.		Morgs	Michael & Edwards (local). Diamond. Tunnel, horse.	
"		"	Silver Run Coal Co., Silver Run. Drift, 12,000 tons, horse. A. Hysell, supt.	
Millerstown Ry. 169.		Holmes	Bilderback Bros. (local). McTroy. Tunnel, 500 tons, hand.	
"		"	City & Unson (local). Slope, 10,000 tons.	
"		"	John Chevalard. Cap. \$10,000. Drift, horse.	
"		"	John Craft & Co., Cap. \$3,000. Open pit, hand.	
"		"	John Horn. Tunnel, 1,000 tons, hand.	
"		"	L. B. Skelly. Open pit, 1,650 tons, hand.	
Mineral Point Ry. 175, 178.		Lucas	Brick Bros. Cap. \$1,500. Tunnel and slope, 24,000 tons, steam. John Brick, supt.	
"		"	Edward Holden. Cap. \$60,000. Shaft, 15,000 tons, horse. Thomas Osborne, supt.	
"		"	Ohio Oil Mining Co., Akron, Ohio, F. A. Seiberling, pres., L. C. Miles, secy. and treas., F. W. Metcalf, mgt., Cap. \$1,500,000. Mineral Ridge, lower Dell, Aime. Tunnel, developing. George J. Marks, supt.	
"		"	Ridgway Burton Co., Massillon, Ohio, J. P. Burton, pres. and treas., D. Johns, secy., Cap. \$1,500,000. Hull Run. Slope, 3,200 tons, horse. J. J. Klein, supt.	
Mineral Ridge Ry. 566.		Trumbull	William Powers (local). Langam. Slope, 60 tons, horse.	
Minersville Ry. Pomeroy 181.		Morgs	Eli Roush (local). Fireclay. Open pit, horse.	
"		"	John J. Williams (local). Tunnel, 2,000 tons, hand.	
Minerva Ry. 173, 175, 376.		Stark	J. W. Shaw. Cap. \$50. Rustic Mountain. Tunnel, 480 tons, hand, horse. John McLean, supt.	

COAL BITUMINOUS—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Monday Ry. 1st.		Hocking	Somers Coal Co., Columbus, Ohio, 11 E. Town st., A. Brenholz, pres.; James O. Somers, secy. and treas., Cap. stk. \$9,000. Monday, Drift, 8,000 tons; horse, F. Williams, supt.	
Mt. Pleasant Ry. 809.		Jefferson	Wheeling, Lake Erie & Pittsburg Coal Co., Toledo, Ohio, W. R. Woodford, pres.; Dwyer Adams, secy. and treas., Cap. stk. \$1,000,000. Long Run, Tunnel, 15,000 tons; horse, George Atherton, supt.	
Murray Ry. 1st.		Hocking	Columbus & Hocking Coal & Iron Co., Columbus, Ohio, Board of Trade Bldg., J. O. Moss, pres.; S. A. McManis, secy.; W. J. Redington, treas.; R. H. Johnson, v.-pres. and gen. mgr. Nos. 30 and 41, Drift, 40,000 tons, steam, horse, Vint. Ferguson, supt.	
"		"	Greendale Furnace Co., Columbus, Ohio, V. M. C. A. Bldg., J. A. Long, pres.; H. F. Holloway, secy. and treas., C. H. Boardman, mgr. Cap. stk. \$25,000. Murray City, Slope, 200,000 tons; steam, John Hopkins, supt.	
Navyale Ry. 173, 174, 809.		Stark	Levi Hill, Tunnel, 240 tons, hand.	
"		"	Ridgway Burton Co., Massillon, Ohio, J. P. Burton, pres. and treas., D. Johns, secy., Cap. stk. \$30,000. South Massillon, Shaft, 20,500 tons, steam, Wm. Hardgrove, supt.	
Neffs Siding, P. O. Shields Ry. 42.		Belmont	George Neff (dead), Cap. \$1,000. Open pit, 40 tons, hand.	
Nesley Ry. Helley 500		Columbiana	Suthers Mining Co., A. H. Davis, pres.; James Suthers, treas., mgr. and supt., Cap. stk. \$10,000. Pleasant Valley, Drift, 75,000 tons, horse.	
Nelsonville Ry. 1st.		Athens	Buckeye Coal Co., Geo. E. Hall, pres.; Geo. O. Shoemaker, secy.; John Ginity, treas.; H. A. Crippen, mgr. Cap. stk. \$85,000. Buckeye, Tunnel, 75,000 tons, horse, John Ginity, supt.	
"		"	Columbus & Hocking Coal & Iron Co., Columbus, Ohio, Board of Trade Bldg., J. O. Moss, pres.; S. A. McManis, secy.; W. J. Redington, treas.; R. H. Johnson, v.-pres. and gen. mgr. Nos. 15, 17, 27, 29, Drift, 18,000 tons, steam, electricity.	
"		"	Hocking Valley Coal Co., Columbus, Ohio, 41 E. Broad st., E. A. Cole, gen. mgr. Cap. stk. \$200,000. Minkes Run, Hawkes, Tunnel, 200,000 tons, steam, compressed air.	
"		"	Johnson Hill Coal Co., Wm. Myers, pres.; Frank W. Poston, secy.; John W. Bennett, treas.; Wm. Ballyrude, mgr. and supt., Cap. stk. \$9,000. Johnson Hill, Slope, 30,000 tons; horse.	
"		"	J. M. Lamm, Cap. \$6,000. Tunnel, 15,000 tons; hand.	
"		"	Last Run Coal Co., James Dew, pres.; Charles F. Myers, secy.; C. H. Doan, treas.; Joseph Slater, v.-pres. and gen. mgr. Cap. stk. \$80,000. Last Run, Drift; electricity (developing), Wm. G. Halbert, supt.	
"		"	Nelsonville Sewer Pipe Co. (dead), James Dew, pres.; C. H. Doan, secy. and treas., Cap. stk. \$25,000. Steam.	
"		"	C. L. Poston & Co., Cap. stk. \$109,000. C. L. Poston, mgr., Green Brier, Drift, 150,000 tons; steam, Cal. Mellinger, supt.	
"		"	Springfield Coal & Ice Co., Springfield, Ohio, 93 S. Elmstone st., E. S. Kelly, pres.; F. W. Ladow, secy.; H. Vokes, mgr. Cap. stk. \$50,000. Springfield, Tunnel, 25,000 tons; horse, Thomas Jones, supt.	
New Albany P. O. Salem Ry. Co. Columbus 42, 169, 170, 1st, 1st, 523, 525, 565.		Mahoning	George Godward & Sons (dead), Tunnel, 3,650 tons, horse.	
New Berlin Ry. 778		Stark	Clayton Hill (dead), Cap. \$2,000. New Berlin, Slope, 740 tons, horse.	
"		"	Richard Warburton (dead), Graham, Open pit, 700 tons; hand.	
New Comerstown Tuscarawas Ry. 174, 584.		Tuscarawas	Thomas Langhead, Tunnel, 250 tons, horse.	
New Franklin Ry. Montrose 563.		Stark	Wm. Sommerville (dead), Cap. \$8,000. Slope, 1,800 tons.	
New Lexington Ry. 164, 765.		Perry	D. E. Davis, Cap. \$1,000. Drift, 1,000 tons, hand.	
"		"	Wales, Hammon & Collat, Nugent, Tunnel, 1,650 tons, hand, W. J. Ruddock, supt.	
New Lisbon Ry. 703, 586.		Columbiana	Edward Broughton (dead), Cap. \$1,000. Tunnel, 1,500 tons; hand.	
"		"	F. March & Son, Cap. \$6,000. March, Tunnel, 4,000 tons, hand, H. A. Match, supt.	
"		"	Sterling Mining Co., N. F. Wood, pres.; H. O. Hebanan, secy.; W. H. Warner, treas. and mgr. Cap. stk. \$40,000. Central Mine, Slope, 15,000 tons, steam, Jos. Farmer, supt.	
New Philadelphia Tuscarawas Ry. 174, 175.		Tuscarawas	Goshen Coal Co., Cleveland, Ohio, 253 Superior st., J. A. Beidler, pres. and treas., A. W. Brown, secy., Cap. stk. \$100,000. Goshen, Drift, 100,000 tons, steam, C. J. Brokenshire, supt.	
"		"	G. W. Mathias, Cap. \$75,000. Slope, 2,000 tons, horse, hand, Ed. Mathias, supt.	
"		"	H. S. Osbert & Co., Cleveland, Ohio, Western Reserve Bldg., Cap. stk. \$50,000. Osbert, Drift, 225,000 tons, steam, John Price, supt.	
New Pittsburg P. O. Blatchford Ry. 1st.		Hocking	New Pittsburg Coal Co., Columbus, Ohio, 11 and 12 Clinton Bldg., Thomas Johnson, pres. and treas.; G. D. Preston, secy.; Edward Johnson, v.-pres. and gen. mgr. and supt., Cap. stk. \$100,000. Powell's Run, Drift, 500,000 tons, steam, compressed air.	
New Straitsville Ry. 1st.		Perry	Columbus & Hocking Coal & Iron Co., Columbus, Ohio, Board of Trade Bldg., J. O. Moss, pres.; S. A. McManis, secy.; W. J. Redington, treas.; R. H. Johnson, v.-pres. and gen. mgr. Rock Run, Nos. 5, 7, 9, 11, 13, 17, 19, Drift, 100,000 tons, steam, electricity, horse.	
"		"	Ohio Coal Co., Columbus, Ohio, Board of Trade Bldg., Black Diamond, Drift, 50,500 tons; horse, David Wadms, supt.	

COAL, BITUMINOUS—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
North Industry	Stark	Wade Coal Co., Cleveland, Ohio, 11 Bratenahl Block, H. D. Dennis, pres.; John C. Allen, secy. and treas.; Cap. stk. \$7,500. Wade, Tunnel; horse, James Perkins, supt.		
North Lawrence	Stark	James Mullins Sons, Wooster, Ohio, Cap. \$50,000. Minglewood Nos. 1 and 2. Slope, shaft, 75,000 tons; steam, T. H. Elser, supt.		
"	"	Ridgway Barton Co., J. P. Barton, pres. and treas., D. Johns, secy., Cap. stk. \$30,000. Palermo, Shaft, 11,000 tons, steam, John Hodgson, supt.		
North Lima	Mahoning	Adam Little and others (local), Spangville, Shaft, 50 tons, horse.		
"	"	Daniel Little & Son (local), Cap. \$5,000. Shaft, 800 tons, steam.		
"	"	Solomon Paulin (local), Open pit, 1,000 tons, horse.		
Oakdale	Athens	Somers Coal Co., Columbus, Ohio, H. F. Town St., A. Ehrenholts, pres.; James O. Somers, secy. and treas., Cap. stk. \$90,000. Sunday Creek, Shaft, 50,000 tons, steam, F. Williams, supt.		
Oak Hill	Jackson	Elm Fire Brick & Coal Co., John D. Davis, pres.; Elias Morgan, secy., J. J. Jones, treas. and mgr., Cap. stk. \$25,000. Elm, Slope, 2,800 tons, hand.		
Olive Furnace	Lawrence	McGugin & Co. (local), Olive Furnace, Tunnel, 1,000 tons, W. H. McGugin, supt.		
Orbiston	Hocking	Raybould Coal Co., Columbus, Ohio, 17 19 Clinton Bldg., Samuel Raybould, pres. and mgr.; Frank A. Pfendler, secy., D. C. Postle, treas.; Cap. stk. \$40,000. Slope, steam, electricity developing, Wm. Raybould, supt.		
Osgaburg	Stark	John Carpenters (local), Miller's, Drift, 1,200 tons.		
Palmira	Portage	Hutton Coal Co., Cleveland, Ohio, Room 50 Whitehall Bldg., H. D. Hutton, pres. and mgr., H. D. Marble, secy. and treas., Cap. stk. \$75,000. Nos. 1 and 2. Shafts, 30,000 tons, steam, Thos. J. Williams, supt.		
"	"	Palmira Coal Co., Youngstown, Ohio, 114 N. Market St., Henry Wick, pres.; Willard P. Ames, secy., treas. and mgr., A and B, Shaft, 50,000 tons, steam, H. B. Evans, supt.		
Petersburg	Carroll	Charles W. Lewis, Allen, Slope, horse, developing.		
P. O. Algoum	Carroll			
Pike	P. O. and Ry. Stark	Wm. Shutz (local), Open pit, 100 tons, hand.		
Point Pleasant	Cuernsey	Cisco Mining Co., Cleveland, Ohio, Western Reserve Bldg., W. B. Huntington, pres., S. H. Foote, secy. and treas., H. S. Olfert, mgr., Cap. stk. \$25,000. Cisco, Shaft, 40,000 tons, steam, John Price, supt.		
P. O. name Dysons				
Pomero	Meigs	Coal Ridge Salt Co., M. B. Wells, pres.; John M. Davis, secy.; J. W. Thomas, mgr., Cap. stk. \$75,000. Coal Ridge, Tunnel, 14,468 tons, horse, Daniel W. Daniels, supt.		
"	"	B. Koehler (local), Cap. 8,000. Tyeelsburg, Tunnel, synctons, horse, Dan T. Chid, supt.		
"	"	Pencook Coal Co., N. Bengel, pres.; Fred Ebersbach, secy. and treas.; Martin Ebersbach, mgr., Cap. stk. \$75,000. Pencook, Slope, 10,000 tons, horse, Wm. Ebersbach, supt.		
Powhatan Point	Belmont	John F. Schwegel & Bros. (local), Cap. \$25,000. Schwegel, Shaft, 480 tons, steam.		
Quaker City	Cuernsey	Alex. Cochran, Cap. \$20,000. Tunnel, 75,000 tons, horse.		
Radcliff	Vinton	John Blore, Blore, Tunnel, 800 tons, hand, H. C. Booth, supt.		
Redfield	Perry	Columbus & Eastern Coal Co., Columbus, Ohio, J. F. Harris, pres.; S. J. Hokenen, secy.; James Cochran, treas., J. A. Dean, mgr. and supt., Cap. stk. \$470,000. Drift, 17,000 tons, horse.		
"	"	James Coyle & Son, Cap. \$5,000. Chestnut Grove, Drift, 12,000 tons, horse, G. W. Coyle, supt.		
"	"	Crafty Coal Co., Columbus, Ohio, Cap. stk. \$20,000. Wallace, Drift, 2,000 tons, horse, Wm. Wallace, supt.		
"	"	Davis Mining Co., B. J. Davis, pres. and supt., D. J. Williams, secy. and treas., John M. Taylor, mgr., Cap. stk. \$4,000. Davis, Open pit, 5,000 tons, horse.		
"	"	Standard Coal Co., Columbus, Ohio, 2 Wesley Block, 10 N. High St., D. Matthews, pres.; Charles Ratzel, secy. and treas., Cap. stk. \$100,000. Union No. 1, Open pit, 40,000 tons, horse, John Koppes, supt.		
"	"	Wallace Coal Co., Columbus, Ohio, John B. Hamilton, pres.; Joseph Crafty, secy. and treas., Wm. Wallace, mgr. and supt., Cap. stk. \$20,000. Wallace, Shaft, 40,000 tons, horse.		
Rendville	Perry	W. P. Bend & Co., Chicago, Ill., 152 Madison St., Sunday Creek No. 3, Shaft, slopes, steam, James McLaughlin, supt.		
Riverton	Jackson	Riverton Coal Co., F. A. Hockett, pres. and mgr., J. F. Compeling jr., secy. and treas., Cap. stk. \$5,000. Riverton, Tunnel, steam, J. J. Donahue, supt.		
Rogers	Columbiana	Quaker Valley Mining Co., Youngstown, Ohio, 17 Public Square, Ralph J. Wick, pres.; M. C. McNabb, secy.; N. F. Wood, treas.; J. M. Walter, mgr., Quaker, Drift, 5,000 tons, horse, James Thompson sr., supt.		
Romine	Muskingum	Diamond Coal Co., Cosesville, Ohio, Cap. \$6,000. Diamond, Tunnel, drift, 4,000 tons, horse, David Davis, supt.		
"	"	O. F. McKinney, Zanesville, Ohio, 42 N. Fourth St., Oak Grove, Drift, 50,000 tons, horse and hand, H. N. Hook, supt.		
Roscoe	Coshocton	James H. Gollen (local), Tremblay, Drift, 880 tons, hand.		
Roseville	Perry	Standard Coal Co., Columbus, Ohio, 26 Wesley Block, 10 N. High St., D. Matthews, pres.; Charles Ratzel, secy. and treas., Cap. stk. \$100,000. Standard No. 2, Open pit, 30,000 tons, horse, J. C. H. Harbs, supt.		

COAL—BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
St. Clairsville	Belmont		Black Diamond Coal Co., C. Trolf Sons, proprietors. Cap. \$50,000. Black Diamond, 100,000 tons, horse; hand.	
"	"	"	Ohio & West Virginia Coal Co., C. Trolf Sons, proprietors. Cap. \$50,000. Ohio and West Virginia, 100,000 tons, horse, hand.	
Salem	Columbiana		Home Dunn (local). Dunn. Slope, 6,000 tons, horse.	
Ry. 585	"	"	Howells & Ashmar (local). Cap. \$5,000. Greenmeyer. Shaft, 3,000 tons, steam. J. K. Ashmar, supt.	
"	"	"	Sheldon Parker (local). Parker, 300 tons, horse.	
"	"	"	Salem Co., Cap. stk. \$50,000. Slope. Win. Dunn, supt.	
"	"	"	Stephen Stone (local). Drift, 900 tons, hand.	
Sallenville	Columbiana		S. S. Carnahan. Cap. \$8,000. Empire. Open pit, 37,000 tons, steam, horse.	
Ry. 175	"	"	T. P. Francis (local). Slope, 2,000 tons, horse.	
"	"	"	H. H. Kirk (local). Drift, 3,000 tons, horse. A. D. Fotheringham, supt.	
Sandrun	Hocking		Columbus & Hocking Coal & Iron Co., Columbus, Ohio, Board of Trade Bldg. J. O. Moss, pres.; S. A. McManigal, secy.; W. J. Redington, treas.; R. H. Johnson, v. pres. and gen. mgr. Nos. 21 and 37. Drift, 120,000 tons, steam, electricity.	
Ry. 181	"			
Sarahsville	Noble		J. H. Young. Cap. \$800. Raccoon. Tunnel, 2,000 tons, horse. Levi Vandyne, supt.	
Ry. 55	"			
Sandover	Meigs (P. O. Philo Ry. 834, 564)		Zanesville Coal Co., Zanesville, Ohio, 42 N. Fourth st. O. F. McKinney, pres. and mgr.; F. E. Hugans, secy.; J. B. W. Ausden, treas. Cap. stk. \$100,000. No. 7. Open pit, 55,000 tons. Thomas Ope, supt.	
Shawnee	Perry		Columbus & Hocking Coal & Iron Co., Columbus, Ohio, Board of Trade Bldg. J. O. Moss, pres.; S. A. McManigal, secy.; W. J. Redington, treas.; R. H. Johnson, v. pres. and gen. mgr. Nos. 21 and 37. Drift, 120,000 tons, steam, electricity.	
Ry. 42, 182	"		Goshue & Barlow, Toledo, Ohio, 422 Madison st. Tintago. Slope, 10,000 tons; steam. J. P. Meredith, supt.	
"	"		J. H. Hazelton. Rock Run. Tunnel, horse.	
"	"		New York & Perry Coal & Iron Co., New York City, 2 Wall st. New York. Tunnel, drift, 450,000 tons, steam. Samuel W. Britt, supt.	
"	"		Shawnee Valley Coal & Iron Co., Newark, Ohio. John C. Hamilton, pres.; L. J. Johnson, secy.; James H. Smith, treas.; Thomas Phillips, mgr. and supt. Drift, 10,000 tons, steam.	
"	"		H. H. Timney & Co., Columbus, Ohio. H. H. Timney, pres.; T. W. Guthrie, secy.; C. S. Benson, treas.; Thomas Corbett, mgr. and supt. Cap. stk. \$250,000. XX. Drift, 30,000 tons, hand.	
"	"		Upton Coal Co., Upton. Tunnel, 125,000 tons, hand, horse, steam, electricity. R. E. Williams, supt.	
Shenodsville	Cuyahoga		Fuller Coal Co., Toledo, Ohio. D. W. Fuller, pres.; James McLean, secy. and treas. Nos. 2 and 3. Tunnel, 125,000 tons, steam, horse. R. H. Wainwright, supt.	
Ry. 175, 809	"		Somers & Wainwright, Cleveland, Ohio, 8 Euclid av. Cap. \$25,000. No. 4. Slope, 5,200 tons, steam. Frank McIntosh, supt.	
Smith	Madison (P. O. Belmont Ry. 156)		Ralph Emerson (local). Slope, 3,000 tons, horse.	
Stellenherville	Jefferson		Jefferson Coal & Iron Co., Wm. P. Hays, pres.; Geo. W. McCook, secy. and mgr.; Wm. Stanton, treas. Cap. stk. \$50,000. Bustard. Shaft, 44,436 tons, steam. John Keilly, supt.	
Ry. 175, 584, 809	"		Stellenherville Coal Mining Co., R. Sheppard Jr., pres.; George W. McCook, secy. and treas.; Wm. Smith-wait, mgr. and supt. Cap. stk. \$50,000. Shaft, 60,000 tons, steam, 6 coke ovens, capacity 1,000 tons.	
"	"		H. E. Wilson (local). Cap. \$5,000. Wilson. Open pit, 5,000 tons, horse.	
Stewartsville	Belmont		Robert Clark (local). Slope, 60 tons, hand.	
Ry. Franklin 42	"		Owen Meahan. Cap. \$10,000. Franklin. Tunnel, 65,000 tons, horse. W. T. Smith, supt.	
Syracuse	Meigs		Syracuse Coal & Salt Co., Ralph Cheney, pres.; P. W. Robbins, secy. and treas.; L. H. Bridgeman, mgr. Cap. stk. \$100,000. Syracuse. Shaft, 52,500 tons, steam, horse. Adam Duckworth, supt.	
Ry. 543	"			
Tallmadge	Summit		W. L. Thomas & Son, Cap. stk. \$12,000. Fairview. Shaft, 5,000 tons, steam. W. L. Thomas, supt.	
Ry. 596	"			
Thurman	Galua		D. D. Morgan (local). Open pit, 500 tons, hand.	
Ry. 643, H. P. 43, 763	"			
Tribble	Athens		Crescent Coal Co., Columbus, Ohio, Board of Trade Bldg. L. R. Doty, pres.; A. O. Mauck, secy. and treas. Cap. stk. \$100,000. Crescent. Shaft, 20,000 tons, electricity, steam. S. F. Knox, supt.	
Ry. 544	"			
Tuscarawas	Tuscarawas		A. Herling. Cap. \$1,000. Diamond. Tunnel, 625 tons, horse. J. M. Herling, supt.	
Ry. 584	"		Nicholas Hert. Cap. \$12,000. Mineral Ridge. Open pit, 20,000 tons, horse. A. Stuber, supt.	
"	"		C. P. Minnich. Cap. \$10,000. Mt. Carbon. Tunnel, 10,000 tons, hand. Benet Minnich, supt.	
Unionsville	Tuscarawas		Diamond Fire Clay Co., James Ball, pres.; J. M. Cooper, secy., treas. and mgr. Cap. stk. \$25,000. Diamond. Tunnel, 7,000 tons, horse. George Ross, supt.	
Ry. 171, 584	"		D. Dunlavy (local). Drift, 1,000 tons, hand.	
"	"		John W. Fetter (local). Cap. \$1,000. Fetter. Open pit, 650 tons, hand.	
"	"		Phenezer H. Cowin (local). Fruit Hill. Open pit, hand.	

COAL BITUMINOUS—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CRUKE OVERS, AND NAME OF MINE SUPERINTENDENT	
TOWN	COUNTY		
Churchsville	Tuscarawas	Jacob Huston, local. Cap. \$5,000. Huston. Open pit, 500 tons, horse.	
"	"	" John M. Smith, local. Scott. Drift, 1,140 tons, horse.	
"	"	" Churchville Fire Clay Co., W. R. Thompson, pres't., L. J. Evans, secy., George Beck, treas., Cap. stk. \$30,000. Slope, 5,000 tons.	
Utley Ry. 706.	Athens	Federal Valley Coal Co., New York, N. Y., 41 Dey st., Clarence Stephens, pres't., Samuel Snow, secy., Melvin Stephens, treas., Cap. stk. \$1,000,000. Federal Creek No. 2. Tunnel, 30,000 tons, horse; breaker, washer, 125 coke ovens, capacity 5,000 tons. N. W. Musgrave, supt.	
Vienna Ry. 506.	Trumbull	Home Rock Coal Co., Youngstown, Ohio. Little Hornsbeel, pres't., James Davis, secy. and treas., John Brunswick, mgr. and supt., Cap. stk. \$1,000. Slope, steam developing.	
Wadsworth Ry. 501	Medina	Akron Coal Co., Akron, Ohio, 112 S. Howard st., H. F. Loomis, pres't. and mgr., James P. Loomis, secy. and treas., Cap. stk. \$20,000. Stony Ridge. Slope, 60,000 tons, steam. A. Gerstenhager, supt.	
"	"	" Card & Barrett Coal Co., Cleveland, Ohio, 44 Euclid av., Cap. \$20,000. No. 1, Colorado. Slope, shaft, 65,174 tons, steam. D. A. Dibble, supt.	
"	"	" W. B. Coleman, Risor Slope. 7,000 tons, steam. J. Jordan, supt.	
"	"	" Excelsior Mining Co., John J. Wagon, pres't. and treas., C. F. Wagon, secy. and mgr., Cap. stk. \$60,000. Excelsior. Slope, 100,000 tons, steam. Wm. Lydhard, supt.	
Wakeup Ry. Broadwell 506.	Athens	J. R. Wickham, local. Slope, 300 tons, horse.	
Washingtonville Ry. 503.	Columbiana	Cherry Valley Iron Works, J. H. King, pres't., S. E. Welker, secy., C. M. Schmuck, treas., Cap. stk. \$250,000. Cherry Valley. Slope, 12,000 tons, steam.	
"	"	" Fair View Mining Co., Youngstown, Ohio, 114 N. Market st., W. H. Warner, pres't., Wilford P. Ames, secy., treas. and mgr., Cap. stk. \$5,000. Fair View. Slope, 30,000 tons, steam. John Hilman, supt.	
"	"	" Walter & Felt Coal Co., Youngstown, Ohio, 17 Public Square, J. M. Felt, pres't. and treas., J. H. Streeter, secy., J. M. Walton, mgr., Drift, 50,000 tons, steam, horse. James Thompson st., mgr.	
Waynesburg Ry. 175.	Stark	George Muser, local. Cap. \$900. Reim. Slope, 1,000 tons, steam.	
Wellston Ry. 42, 156, 555	Jackson	Comet Coal Co., Dayton, Ohio, 101 Wayne av., W. W. Whitmore, pres't., J. D. Whitmore, secy., treas. and mgr., Cap. stk. \$600,000. India. Cap. \$18,000. Comet. Shaft, 3,000 tons, steam. Peter Gallagher, supt.	
"	"	" Elza Coal Co., Dayton, Ohio, 175 S. Third st., S. J. Patterson, pres't., G. O. Richardson, secy., D. Armstrong, treas., John Jones, mgr., Cap. stk. \$50,000. Elza. Shaft, 5,000 tons, steam.	
"	"	" Elhart Coal & Mining Co., T. B. Boyd, pres't., A. F. Holcomb, secy., John J. Roberts, treas., Theo. Elhart, mgr., Cap. stk. \$300,000. Shaft, 10,000 tons, steam.	
"	"	" Southern Ohio Coal & Iron Co., Dayton, Ohio, 20 E. Third st., A. A. Thomas, pres't., W. L. Eaton, secy., treas. and mgr., Cap. stk. \$2,000,000. No. 1. Slope, 10,000 tons, steam. Allen Stitt, supt.	
"	"	" Superior Coal Co., M. S. Stumberger, pres't., H. S. Willard, secy. and mgr., Cap. stk. \$100,000. Shaft, steam, horse.	
"	"	" Wainwright Coal Co., R. H. Wainwright, pres't., D. J. Harris, mgr. and supt., Cap. stk. \$75,000. Wainwright. Shaft, 15,000 tons, steam.	
Wellsville Ry. 175, 565	Columbiana	C. B. Weaver, local. Cap. \$2,000. Tunnel, 10,000 tons, hand. A. F. Weaver, supt.	
Western Star Ry. 42, 169, 593, 582, 502, 575.	Summit	D. P. Day, local. Slope, 2,000 tons, horse.	
W. Lataville Ry. 584	Coshocton	Bert C. Williams, local. Bart's Run. Tunnel, 12,000 tons, hand.	
Yorkville Ry. 175.	Jefferson	Ohio & Pennsylvania Coal Co., Cincinnati, Ohio, 101 E. 7th, pres't., A. McHenry, secy., Open pit, horse, W. H. Felt, supt.	
Youngstown Ry. 584, 501, 566, 592.	Madison	Walt Hays Coal Co., 114 N. Market st., Henry Wark, pres't., Wilford P. Ames, secy., treas. and mgr., W. H. Hays, supt., Shaft, 10,000 tons, hand. David Jacobs, supt.	
Zaleski Ry. 48.	Vinton	Zaleski Coal & Ice Co., W. J. McCutick, pres't., Ames Smith, secy. and treas., Robert Thompson, mgr., Cap. stk. \$75,000. Zaleski. Drift, 5,000 tons, horse. T. L. Watkins, supt.	
Zanesville Ry. 42, 174, 560, 569, 582, 584.	Muskingum	John H. Alexander, local. Open pit, 500 tons, hand.	
"	"	" Bradewa & Barton, 26 E. Pike st., Slope, 1,000 tons, hand. George Jones, supt.	
"	"	" J. A. DeWendick, Cap. \$10,000. Oak View. Tunnel, 10,000 tons, horse. Thomas Lee, supt.	
"	"	" Theo. Dietz, local. Slope, 5 tons.	
"	"	" John German, local. Tunnel, 2,000 tons, hand. George German, supt.	
"	"	" Geo. H. Harper, local. Open pit, 1,800 tons, horse.	
"	"	" Thomas Potts, 67 Adams st., local. Tunnel, 1,500 tons, hand.	
"	"	" Wm. A. Wernicke, Eighth st., local. Cap. \$8,000. Tunnel, 14,000 tons, hand. James Fox, supt.	
Zion Ry. 174, 175, 509.	Tuscarawas	Wm. R. Jones, local. Cap. \$8,000. Eagle Hill. Tunnel, 11,250 tons, horse.	
"	"	" Zion Society, local. Tunnel, 75 tons, hand.	

COAL CANNEL

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Pigeon Run Ry. Massillon 171, 563.	Stark	O. Young Coal Co., Cleveland, Ohio, 725 Society Savings Bldg. Cap. stk. \$90,000. Camp Creek. Shaft, 50,000 tons, steam. Joseph Collier, supt.		
Warsaw Ry. 169.	Coshocton	Parkway Cannel Coal Co., Cleveland, Ohio, 505 Western Reserve Bldg. J. E. Zerlin, pres. and treas.; E. E. Batney, secy. Cap. stk. \$50,000. Warsaw. Drift, 10,000 tons, horse. W. G. Jones, supt.		

FIRE CLAY

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Canal Dover, Tuscarawas Ry. 171, 174, 175.			Dover Fire Brick Co., Cleveland, Ohio, cor. Bank and Superior sts. C. S. Barrott, pres. and treas.; G. H. Ganson, secy.; P. Arnold, mgr. Cap. stk. \$100,000. Barretts. Tunnel, 30,000 tons, hand.	
Canton Ry. 173, 585, 578.	Stark	Canton Brick Co. H. S. Belden, pres.; J. L. Hugley, secy. and treas.; Peter Miller, mgr. Shale clay.		
Coleman Ry. 565.	Columbiana	Union Fire Clay and Stone Co. C. Coleman, pres.; C. S. Coleman, secy. and treas.; Wm. Douglas, mgr. Cap. stk. \$10,000. Coleman. Tunnel, 17,000 tons, steam. J. T. Griffiths, supt.		
Cuyahoga Falls Ry. 169, 592.	Summit	Camp & Thompson. Cap. \$100,000. Open pit, 18,000 tons; water, steam.		
E. Palestine Ry. 565.	Columbiana	State Line Sewer Pipe Co. James Mullins, pres.; Robert F. Taggart, secy. and treas.; Hugh Laughlin, mgr. and supt. Cap. stk. \$50,000. State Line. Slope, 50,000 tons, steam.		
Empire Ry. 175.	Jefferson	Congo Fire Clay Co. B. U. Wilkinson, pres. and mgr.; Thos. Wilkinson, secy. and treas. Cap. stk. \$30,000. Congo. Slope, 800,000 tons.		
"	"	Minor Fire Clay Co. Tunnel, 5,000 tons; horse.		
Freeman Ry. 175.	Jefferson	Freeman Fire Clay Co. C. A. Freeman, pres.; J. M. Freeman, secy. Cap. stk. \$80,000. Tunnel, 15,000 tons.		
Greenford Ry. 563.	Mahoning	Greenford Fire Clay Co. Cap. stk. \$5,000. Slope, 2,000 tons; steam.		
Haydensville Ry. 181.	Hocking	Haydensville Mining & Manufacturing Co. Charles H. Hayden, pres.; J. W. Jones, secy., treas. and mgr. Cap. stk. \$10,700. Mingo. Open pit, tunnel, 65,000 tons, steam.		
Irontide Ry. 565.	Jefferson	Wm. Lacey, Cleveland, Ohio, 77 and 79 River st. Cap. stk. \$100,000. Lacey, sandstone and fire clay. Shaft, 18,000 tons, steam.		
Lilly Ry. Gephart 43.	Seloto	R. H. & G. C. Cook. Cap. \$5,000. Enterprise. Slope, 6,500 tons, steam. R. H. Cook, supt.		
Logan Ry. 181.	Hocking	Joe Bartholow. No. 6. Open pit, 10,000 tons.		
Magnolia C. and P. O. Ry. 175.	Carroll	Beatty Fire Clay Co., Canton, Ohio. W. M. Beatty, pres.; mgr. and supt.; J. J. Whitacre, secy. and treas. Cap. stk. \$10,000. Beatty. Tunnel, 5,000 tons, horse.		
Malvern Ry. 175.	Carroll	Malvern Clay Co. John H. Wilson, pres.; George H. Allen, secy., treas. and mgr. Cap. stk. \$6,500. Malvern. Slope, 20,000 tons, horse; Peter Reich, supt.		
"	"	Phoenix Fire Clay Co. C. A. Weaver, pres.; R. Roberts, secy. and treas.; Samuel Holkinson, mgr. Cap. stk. \$75,000. Phoenix. Slope, 900,000 tons, steam. John Connor, supt.		
Massillon Ry. 171, 585, 590.	Stark	Massillon Stone & Fire Brick Co., Pittsburg, Pa., 933 Penn. av. R. P. Duff, pres.; Wm. G. Hepp, secy. and mgr.; E. A. Kutzmiller, treas. Cap. stk. \$80,000. Tunnel, 25,000 tons, steam.		
Mayville Ry. Whona Furnace 1st.	Perry	L. M. Butt. Tunnel, hand.		
Mineral Point, Tuscarawas Ry. 175, 578.		C. E. Brothers (local). Open pit.		
Mogadore Ry. 173.	Summit	Myers & Hall. Fire clay. 5,000 tons.		
McVern Furn., Lawrence P. O. Campbell Ry. 156		Campbell Iron Co., Tronton, Ohio. J. H. Moulton, pres.; H. H. Campbell, secy. and treas.; J. W. Camp- bell, mgr. Cap. stk. \$100,000. Mt. Vernon Furnace. Open pit, 5,000 tons, hand.		
Navarre Ry. 175, 589.	Stark	Akron Fire Brick Co., Akron, Ohio, 105 Bank st. C. A. Allison, pres.; B. M. Allison, secy., treas. and mgr. Cap. stk. \$50,000. Navarre. Slope, 8,000 tons, hand.		
Nelsonville Ry. 181.	Athens	Nelsonville Sewer Pipe Co. James Dew, pres. and mgr.; C. H. Doan, secy. and treas. Cap. stk. \$25,000. Tunnel, 15,000 tons, steam.		
New Lisbon, Columbiana Ry. 563, 586.		Keystone Fire Clay Co. Fred H. Pritchard, pres. and mgr.; Willis Jordan, secy. and treas. Cap. stk. \$25,000. Keystone. Tunnel, 15,000 tons, horse. John Gillis, supt.		
Portsmouth Ry. 42, 165, 529, 539.	Seloto	Seloto Star Fire Brick Works. E. B. Greene, pres.; R. A. Mitchell, secy. and mgr. Cap. stk. \$18,000. Tunnel, 15,000 tons.		
Sandy P. O. and Ry. Mineral Point 175, 578.	Tuscarawas	Edward Holden. Point Savage. Tunnel, 5,000 tons, horse. Wm. Holden, supt.		
Springfield P. O. Akron Ry. 12, 139, 503, 582, 592, 578.	Summit	Akron Clay Co. Archie Markle, secy. and treas.; Geo. W. Markle, mgr. Cap. stk. \$6,000. Harshberger. Open pit, steam. John Grant, supt.		
Toronto Ry. 175.	Jefferson	John Franey's Sons Co. Cap. \$150,000. Forest City. Slope, 25,000 tons, steam.		

FIRE CLAY—(CONTINUED)

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Toronto		Jefferson	Great Western Fire Clay Co.	Cap. \$150,000. Shaft, 24,000 tons, steam.
"	(Continued.)	"	Jefferson Fire Clay Co.	Cap. \$55,000. Jefferson. Shaft, 10,000 tons, steam. D. H. Kerr, supt.
Urbelsville		Tuscarawas	Diamond Fire Clay Co.	James Ball, pres.; J. M. Cooper, secy., treas. and mgt. Cap. stk. \$25,000. Tunnel, 171, 584, horse.
"		"	Urbelsville Fire Clay Co.	W. E. Thompson, pres.; T. J. Evans, secy. and mgt.; George Beck, treas. Cap. stk. \$30,000. Slope, steam.
Walkers		Columbiana	N. L. Walker Clay Manufacturing Co.	N. L. Walker, pres.; treas. and mgt. M. J. Ryan, secy. Cap. stk. \$250,000. Walker. Open pit, 15,000 tons, steam.

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Blackband		Tuscarawas	Edgway Burton Co.	Massillon, Ohio. J. P. Burton, pres. and treas.; D. Johns, secy. Cap. stk. \$30,000. Ankeny, black band ore. Tunnel, 25,000 tons, horse. Christian Maier, supt.
Bloom Switch		Scioto	Clare Iron Co.	Portsmouth, Ohio. J. D. Lane, pres. and treas.; E. H. Lane, secy. and mgt. Cap. stk. \$100,000. Black ore. Open pit, 10,000 tons, hand. charcoal furnace capacity 3,000 tons. J. N. Foster, supt.
Campbell		Lawrence	Campbell Iron Co.	Fronton, Ohio. J. H. Montton, pres.; H. H. Campbell, secy. and treas.; J. W. Campbell, mgt. and supt. Cap. stk. \$50,000. Mt. Vernon Furnace, iron ore. Open pit, 10,000 tons, hand.
Card Power		Tuscarawas	Port Iron & Coal Co.	J. P. Burton, pres.; H. S. Ream, secy.; S. W. Clayton, treas. and mgt. Cap. stk. \$20,000. Balford, black band ore. Slope, open pit, 15,000 tons, horse, blast furnace, George Brick, supt.
Fairfield		Tuscarawas	G. A. Kollar	Cap. \$2,000. Black band ore. Tunnel, 3,000 tons, hand.
Hanging Rock		Lawrence	Morris, Kyle & Co.	J. E. Wilford, pres.; James Ball, secy. and treas. Cap. \$50,000. Pine Grove, carbonate iron ore. Open pit, tunnel, 25,000 tons, hand, charcoal furnace. A. E. Mackintosh, supt.
Mount Vernon		Lawrence	Campbell Iron Co.	Fronton, Ohio. J. H. Montton, pres.; H. H. Campbell, secy. and treas.; J. W. Campbell, mgt. Cap. stk. \$10,000. Mount Vernon Furnace, iron ore. 10,000 tons, hand.
New Philadelphia		Tuscarawas	George A. Kollar	Cap. \$5,000. Black band ore. Tunnel, 3,000 tons, hand.
Olive Furnace		Lawrence	McGugin & Co.	Olive Furnace, limestone. Tunnel, 10,000 tons, charcoal furnace.
Post Boy		Tuscarawas	Black Band Iron Co.	Marionetta, Ohio. A. J. Warner, pres.; Geo. H. Jones, secy. Cap. stk. \$100,000. Post Boy, black band ore. Tunnel, 10,000 tons, horse. A. J. Owsing, supt.
"		"	Morris & Howells, Canal Over, Ohio	Cap. stk. \$10,000. Camp Morris, black band ore. Tunnel, 25,000 tons, horse, William Morris, supt.
Ridgill		Vinton	D. H. Pearce	Iron ore. Tunnel, open pit, 5,000 tons, hand. T. Atbough, supt.

SALT

LOCATION OF MINE OR WELL, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Pomeroy		Meigs	Buckeye Salt Co.	George McQuinn, pres.; A. D. Brown, secy., treas. and mgt. Cap. stk. \$65,000. Common, line, duty. 75,000 brls., steam.
"		"	Coal Ridge Salt Co.	M. B. Wells, pres.; John M. Davis, secy. and treas.; J. W. Thomas, mgt. Cap. stk. \$5,000. Coal Ridge. 70,000 brls., steam.
"		"	Ebersbach, Schaefer & Co.	Cap. \$25,000. Pomeroy. Common, line, duty. Well, 1,000 brls., steam.
"		"	Excelsior Salt Works	R. Koehler, prop. Cap. \$3,000. Excelsior. Duty, common, line. 4,000 brls., 11,000 tons, horse.
"		"	John J. Juhler	Cap. \$9,000. White Rock. Common, line. Artesian wells, 50,000 brls., steam.
Syracuse		Meigs	Syracuse Coal & Salt Co.	Ralph Cheney, pres.; P. W. Robbins, secy. and treas.; E. H. Bridgeman, mgt. Cap. stk. \$100,000. Syracuse. Common, line, duty. Shaft, well, 12,000 brls., steam, horse. Adam Duckworth, supt.

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	COUNTY.		
Akron	Summit	J. Hugill, 114 South College st.	Cap. stk. \$20,000. Sandstone. Open pit, 4,800 tons, horse.
Amherst	Lorain	Ohio Stone Co., Cleveland, Ohio, 204 Superior st. J. M. Hughes, pres.; L. P. Haldeman, v.-pres. and secy.; C. C. Cuskey, treas.; D. D. Haldeman, mgr.	Cap. stk. \$200,000. Sandstone. Open pit, 14,000 tons; steam, mill.
Amity	Montgomery	A. J. Shaffer (local).	Limestone. Hand, mill.
Bart's Mills	Tuscarawas	Kitzmiller Stone Co., Canton, Ohio, 18 W. Eighth st. John W. Gabriel, pres.; secy. and treas.; H. A. Kitzmiller, mgr.	Cap. stk. \$22,500. Kitzmiller, sandstone. Open pit, 18,000 tons; steam, mill, John Saunders, supt.
Berea	Cuyahoga	Cleveland Stone Co., Cleveland, Ohio, Wilshire Bldg.	J. M. Worthington, pres.; Geo. H. Worthington, secy. and treas. Cap. stk. \$2,250,000. Berea, sandstone. Open pit, 42,000 tons; steam, mill. James Nicholl, gen. supt.
Berlin Heights	Erie	G. A. Baillie.	Sandstone. Slope, 16,000 tons, steam.
Bluestone	Cuyahoga	Maxwell Roll & Co., Cleveland, Ohio, 5 Euclid av.	Cap. stk. \$20,000. Bluestone. Open pit, 100,000 tons; steam, mill.
Blyth	Allen	Siddall & Townsend.	Limestone. Open pit, 45,000 tons; steam, limekiln, capacity 2,400 tons.
Bowling Green	Wood	Murphy & Mercer.	Cap. stk. \$3,000. Limestone. 20,000 tons; steam, mill. George E. Mercer, supt.
Briggs	Washington	D. B. Calder.	Cap. \$2,000. Constitution, sandstone. 200 tons, steam.
"	"	F. W. Knowles (local).	Grindstones. 200 tons; hand, mill.
Brookfield	Trumbull	Hamilton & Bailey Stone Co.	Cap. stk. \$8,000. Whittaker, sandstone. Open pit, 2,000 tons; steam, mill.
Brownhelm	Lorain	Cleveland Stone Co., Cleveland, Ohio, Wilshire Bldg.	J. M. Worthington, pres.; George H. Worthington, secy. and treas. Cap. stk. \$2,250,000. Brownhelm, sandstone. Open pit, 42,000 tons; steam, mill. James Nicholl, gen. supt.
Buena Vista	Seneca	Buena Vista Freestone Co., Adolph Cadin, pres.; W. L. Cadin, secy.	Cap. stk. \$50,000. Buena Vista, freestone. Open pit, 20,000 tons; steam, mill. Adolph Cadin, supt.
"	"	John Miller & Sons.	Cap. stk. \$25,000. Buena Vista, freestone. Open pit, 5,000 tons; steam.
Campbell	Lawrence	Campbell Iron Co., Ironton, Ohio. J. H. Moulton, pres.; H. H. Campbell, secy. and treas.; J. W. Campbell, mgr. and supt.	Cap. stk. \$100,000. Mt. Vernon Furnace, limestone. Open pit, 20,000 tons; hand.
Carthage	Hamilton	F. E. Wiehe (local).	Cap. \$2,000. Limestone. Open pit, 575 tons, hand.
Centerville	Montgomery	James Maurel.	Sandstone. 1,400 tons.
Charkfield	Huron	Furlong Stone Co.	Cap. stk. \$10,000. Furlong quarry, sandstone. Open pit, steam and horse, mill. Daniel Matloy, supt.
Cold Springs	Clarke	Moores & Co.	Limestone. Slope, steam. W. H. Kennedy, supt.
Columbia Station	Lorain	Cleveland Stone Co., Cleveland, Ohio, Wilshire Bldg.	J. M. Worthington, pres.; George H. Worthington, secy. and treas. Cap. stk. \$2,250,000. Columbia, sandstone. Open pit, 42,000 tons; steam, mill. James Nicholl, gen. supt.
Constitution	Washington	Constitution Stone Co., M. J. O'Connor, pres. and treas.; Thomas Cleary, secy. and supt.	Sandstone 2,000 tons; steam, mill.
Covington	Miami	J. W. Ruhl.	Cap. \$20,000. Rocky Branch, limestone. Open pit, 18,000 tons; steam, mill, limekilns capacity 2,025 tons. J. R. Rensch, supt.
Edinburg	Portage	W. B. Davis.	Red sandstone. Open pit, hand.
Enon	Seneca	W. E. Marsh & Co.	Limestone. Open pit, 30,000 tons; hand. W. E. Marsh, supt.
Ellsworth	Madison	M. J. Barnes.	Cap. \$8,000. Sandstone, limestone. Open pit, hand.
Elyria	Lorain	George E. Bryant, 14 W. Third st.	Cap. \$10,000. Sandstone. Open pit, 80 tons, steam, mill.
"	"	H. F. Mussey & Co.	Mussey, sandstone. Open pit, steam.
Forest Dale	Lawrence	Edward Atkins.	Limestone. Open pit, 50,000 tons; hand.
Fostoria	Seneca	D. P. Lloyd Co.	Cap. \$30,000. Limestone. Open pit, 15,000 tons; steam; limekiln, capacity 9,000 tons.
Frement	Sandusky	Gottson Bros.	Limestone. Open pit, 6,400 tons; steam, hand, limekiln, capacity 6,000 brls.
Fulton	Morrow	J. B. Rinehart.	Cap. \$2,000. Fulton, sandstone. Open pit, 14,000 tons; steam. B. J. Lyons, supt.

STONE, MARBLE, GRANITE AND ONYX (CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Fultonham		Muskingum	Hoover Bros., Fultonham, limestone.	Open pit, 10,000 tons; steam, limekiln.
Ry. 182.				
Grafton		Lorain	Elyria Stone Co., Elyria, Ohio.	H. E. Corning, pres't., W. L. Fay, sec'y, treas. and mgr. Cap. stk. \$165,000.
Ry. 170, 171.			Elyria, sandstone.	Open pit, 32,000 tons; steam, mill. Charles F. Pordles, supt.
"		"	Grafton Stone Co., E. S. Flint, pres't., W. S. Miller, sec'y., Col. S. Bliss, treas., W. E. Miller, v.-pres't., and mgr.	Sandstone, 50,000 tons. Cap. stk. \$120,000; steam, mill.
Greenfield		Huron	Colt & Graham, Steuben, sandstone.	Open pit, 500 tons; hand.
(P. O. Steuben) Ry. 42, 565.				
Hanging Rock		Lawrence	Meigs, Kyle & Co., L. B. Willard, pres't. and mgr.; James Bull, sec'y, and treas.	Cap. stk. \$200,000. Junior
Ry. 523.			Hearth Stone, sandstone.	Hand-developing.
Independence		Cuyahoga	J. Bender & Assoc., Smiths, sandstone.	Open pit, 300 tons; horse.
Ry. 778.				
"		"	Little & Pettibone, Cleveland, Ohio, 5 Euclid av.	Independence, freestone. Mill.
"		"	Ohio Stone Co., Cleveland, Ohio, 204 Superior st.; J. M. Hughes, pres't., L. P. Haldeman, v.-pres't., and sec'y., L. C. Caskey, treas.; D. D. Haldeman, mgr.	Cap. stk. \$2,000,000. Sandstone. Open pit, 14,000 tons; steam, mill.
Killbuck		Holmes	Killbuck Brown Stone Co., Chas. F. Duer, sec'y., Z. A. Duer, treas. and mgr.	Killbuck, sandstone. Open pit; electricity, horse, hand, mill. Eros Schindler, supt.
Ry. 169.				
La Grange		Lorain	Cleveland Stone Co., Cleveland, Ohio, W. Shore Rd.; J. M. Worthington, pres't., George H. Worthington, sec'y and treas.	Cap. stk. \$2,250,000. La Grange, sandstone. Open pit, 42,000 tons; steam, mill. Jas. Nichol, gen. supt.
Ry. 170.				
Lancaster		Fairfield	F. C. Nech, Cap. \$50,000.	Alleghany, sandstone. 75,000 tons; steam, horse. Wm. Strachan, supt.
Ry. 161, 181.				
Lime City		Lima	Lime City Co., C. H. Sawyer, pres't., J. P. Bronson, sec'y and treas.	G. S. Brood, mgr. Cap. stk. \$50,000.
Ry. 709.			Lime City, limestone.	Open pit, 60,000 tons; steam, 17 m. kilns. J. Heffernan, supt.
"		"	Madigan Stone & Supply Co., Detroit, Mich.; W. Fort, st. Cons. P. Smith, pres't. and mgr., Cameron Carter, sec'y and treas.	Cap. stk. \$100,000. Homestead Quarry, limestone. Open pit, 70,000 tons; steam. Orlando Edmonson, supt.
Lucas		Richland	Richland Stone Co., Mansfield, Ohio, Savings Bank Bldg.; H. C. Post, pres't.; L. H. Zuercher, sec'y., Geo. E. St. John, treas.	Chas. W. French, mgr. Cap. stk. \$200,000. Lucas, sandstone, slope and steam.
Ry. 585.				
Lykens		Crawford	A. J. Brown.	Limestone, open pit; steam.
Ry. 582.				
McArthur		Antion	J. H. Pfeiffer & Co., Pfeiffer, limestone.	Open pit; hand.
Ry. 181.				
McLainville		Belmont	Joseph McLain & Son, Belmont, Ohio, 122 Greenway st.; Joseph McLain, pres't. and mgr.	Wm. G. McLain, sec'y and treas. Cap. stk. \$100,000. McLainville, sandstone. Open pit, 20,000 tons; steam. Henry Hall, supt.
Ry. 45.				
Marble Hill		Franklin	T. J. Price & Co., Columbus, Ohio, 72 N. 3d st.; Marble Hill, limestone.	Open pit, 50,000 tons; steam, limekiln, capacity, 5,000 tons. J. E. Price, supt.
Ry. 584.				
Marblehead		Ottawa	Kunz & Johnson, Sandusky, Ohio, Water st.; Cap. \$75,000.	Limestone. Open pit, 10,000 tons; hand limekiln, capacity, 60,000 lbs. John Barnes, supt.
Ry. 384.				
"		"	Stoss Marblehead Lime Co., S. Stoss, pres't. and treas.; F. Vanderveer, mgr.	Stoss Marblehead, limestone. Open pit.
Massillon		Stark	Vogt Stone Co., Wm. H. Vogt, pres't., Wm. McMillan, sec'y and treas.; L. L. Vogt, mgr. and supt.	Cap. stk. \$8,500. Sandstone. Open pit, 50,000 tons; steam, mill.
Ry. 171, 585, 809.				
"		"	Warthorst & Co., Sandstone, sand.	
McVernon Farm		Lawrence	Campbell Iron Co., Trenton, Ohio; J. H. Moulton, pres't., H. H. Campbell, sec'y and treas.; J. W. Campbell, mgr.	Cap. stk. \$100,000. McVernon Farm, limestone. Open pit, 12,000 tons; hand.
(P. O. Campbell) Ry. 456.				
Newark		Licking	George Hayens.	Newark, freestone. Open pit, 2,000 tons; hand.
Ry. 45, 584.				
New Lisbon		Columbiana	John H. O'Mara, Cap. \$2,000.	Limestone, sandstone. Open pit, 4,000 tons; hand.
Ry. 586, 586.				
Newport		Adams	Highland Stone Co., Norwood, Ohio; J. J. McFarlan, pres't. and sec'y.; John W. Felsch, sec'y, mgr. and supt.	Cap. stk. \$20,000. Lime, lime. Open pit, 15,000 tons; hand.
(P. O. name Wilson) Ry. 165.				
"		"	L. & F. Fieting, Cincinnati, Ohio, Webster st.; Cap. stk. \$10,000.	Shinarump, limestone. Open pit, 2,000 tons; hand. L. Fieting, supt.
North Amherst		Lorain	Cleveland Stone Co., Cleveland, Ohio, W. Shore Rd.; J. M. Worthington, pres't., George H. Worthington, sec'y and treas.	Cap. stk. \$2,250,000. North Amherst, sandstone. Open pit, 42,000 tons; steam, mill. James Nichol, gen. supt.
Ry. 585.				
Olmsted Falls		Cuyahoga	Cleveland Stone Co., Cleveland, Ohio, W. Shore Rd.; J. M. Worthington, pres't., George H. Worthington, sec'y and treas.	Cap. stk. \$2,250,000. Olmsted Falls, sandstone. Open pit, 42,000 tons; steam, mill. James Nichol, gen. supt.
Ry. 383.				
Otway		Seneca	W. B. Smith & Sons, Freeman, sandstone.	Open pit, 65,000 tons; steam, horse, hand. L. C. Smith, O. P. Smith and James Barker, supts.
Ry. 165.				
Owens		Marton	D. Owens & Son, Owens, limestone, sandstone.	2,550 tons; steam, limekiln. Cap. \$2,400 tons. Daniel Owens, supt.
Ry. 181.				
Penninsula		Summit	Cleveland Stone Co., Cleveland, Ohio, W. Shore Rd.; J. M. Worthington, pres't., George H. Worthington, sec'y and treas.	Cap. stk. \$2,250,000. Peninsula, sandstone. Open pit, 42,000 tons; steam, mill. James Nichol, gen. supt.
Ry. 778.				

STONE, MARBLE, GRANITE AND ONYX (CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Peninsula (Continued.)				
	Summit		Ohio Stone Co., Cleveland, Ohio, 204 Superior st., J. M. Hughes, pres't., L. P. Haldeman, v.-pres't., and sec'y., C. C. Caskey, treas., D. D. Haldeman, mgr., Cap. stk. \$200,000. Sandstone. Open pit, 14,600 tons, steam, mill.	
Plymouth Ry. 42, 382.	Richland		Plymouth Stone Co., D. L. Critten, pres't.; Jacob Wallace, sec'y. and treas., C. H. Whittier, mgr. and supt., Cap. stk. \$6,000. Sandstone. Open pit, steam, horse.	
Point Pleasant Ry. 333.	Clermont		Gallbreath & Bushman, Cap. \$3,000. Limestone. Open pit, 6,000 tons, horse, hand.	
"	"		Point Pleasant Stone quarry. Limestone. Open pit, 750 tons, hand. George F. Knabb, supt.	
Rockville (P. O. Remond) Sharaville 381.	Ry.		Dallas Beebe, Cap. \$3,000. Beebe, sandstone. Open pit, 75,000 tons, horse, hand.	
Rockbridge Ry. 181.	Hocking		Detroit & Hocking Valley Red & Brown Stone Co., Detroit, Mich., 55 Champlain st., Joseph S. Visger, pres't., Richard J. Sheelan, sec'y., G. Chirra, treas., Charles C. Emmy, mgr., Cap. stk. \$100,000. Hocking Valley, sandstone. Open pit, 15,000 tons, steam. H. A. Flowers, supt.	
St. James Ry. 170.	Morrow		Buckeye Stone Co., J. J. McFarren, pres't., A. W. Monroe, sec'y. and treas., J. H. McFarren, mgr. and supt., Cap. stk. \$20,000. Buckeye, sandstone. Open pit, 15,000 tons; steam.	
Silverton Ry. 158.	Hamilton		J. K. Galloway, Limestone. Open pit.	
Springfield Ry. 170, 503, 535, 584.	Clarke		Wm. K. Duke, 37 W. Mulberry st., Mill Creek, limestone. Open pit, hand, mill.	
"	"		Mills Bros., 105 S. Limestone st., Cap. stk. \$40,000. Limestone. Open pit, 25,000 tons, steam and hand; mill, kiln, 550 tons. Henry Boss, supt.	
Stony Ridge Ry. 765.	Wood		Luekey Stone Co., Elmore, Ohio, J. B. Luekey, proprietor. Luekey, limestone. Open pit, 40,000 tons, steam, mill.	
Sugar Grove Ry. 181.	Fairfield		R. L. Sharp Stone Co., Sandstone. Open pit, hand, horse.	
"	"		Wm. Sharp, Buckeye. Open pit, 2,000 tons, hand.	
Sulphur Grove Ry. Dayton 150, 170, 297, 503, 584.	Montgomery		D. P. Oram, Limestone. Open pit, 1,000 tons, hand.	
Sunbury Ry. 130.	Delaware		Sunbury Stone Co., William Bunyan, pres't., Edward T. Bunyan, sec'y. and mgr., Cap. stk. \$25,000. Sunbury. Open pit, 4,800 tons, steam, mill. John Hunter, supt.	
Thompson Ry. Madison 383, 502.	Geauga		Chrys Sulley, Cap. \$2,000. Sandstone. 20,000 tons, horse and hand, mill.	
Tiffin Ry. 42, 170, 530.	Seneca		J. Poling, Cap. \$3,000. Limestone. Open, hand.	
Vincent Ry. 765.	Washington		Hayes Bros., Cap. \$15,000. Sandstone. Open pit, 1,000 tons, steam; mill.	
Wakeman Ry. 383.	Huron		Cleveland Stone Co., Cleveland, Ohio, Walsure Bldg., J. M. Worthington, pres't., George H. Worthington, sec'y. and treas., Cap. stk. \$2,250,000. Wakeman, sandstone. Open pit, 42,000 tons, steam, mill. Jas. Nicholl, gen. supt.	
Wayert Ry. 323, 305.	Pike		Wayert Stone Co., W. S. Jones, pres't., J. W. Logan, sec'y. and treas., R. E. Sharpe, mgr. and supt., Cap. stk. \$5,000. Sandstone. Open pit, 24,000 tons, steam, horse, hand, mill. R. E. Sharpe, supt.	
West View Ry. 170.	Cuyahoga		Cleveland Stone Co., Cleveland, Ohio, Walsure Bldg., J. M. Worthington, pres't., George H. Worthington, sec'y. and treas., Cap. stk. \$2,250,000. West View, sandstone. Open pit, 42,000 tons, steam, mill. Jas. Nicholl, gen. supt.	
Whitehouse Ry. 784	Lucas		J. L. Pray & Son, Cap. stk. \$3,000. Sandstone. Open pit, 10,000 tons, hand, mill. J. E. Pray, supt.	
Youngstown Ry. 382, 503, 553, 591	Mahoning		Youngstown Stone Co., R. T. Walker, pres't., F. P. Hood, sec'y., Wm. Cornelius, treas., George W. Campbell, mgr., Cap. stk. \$500. Youngstown, sandstone. Open pit; steam, sand mill.	
Zanesville Ry. 42, 164, 170.	Muskingum		T. M. Myers, 105 Main st., Cap. \$10,000. Dillon Falls, sandstone. Open pit, 10,000 tons, steam. Harry Lucas, supt.	
"	"		A. Emery, Cap. \$10,000. Pittman, sandstone. Slope, 7,000 tons, hand.	
"	"		John W. King, 15 N. Fourth st., Kings, 10 clay, sandstone. Open pit, 3,000 tons. George Smith, supt.	
"	"		Philip Mowin, 104 1/2 Elm st., Cap. \$1,500. Mowin, limestone. Open pit, 10,000 tons, hand. Lunckin, 6,000 tons, hand.	

SEE ALSO SUPPLEMENTARY

OREGON

COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
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TOWNS AND COUNTIES

Gold Beach, Curry N. Huntley. Black Diamond. Open pit, 40 tons. Retraictory, hand.
Ry. 552.

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTIES	
Applegate Ry., Jackson Ry., Jacksonville 756 (17 miles).	John F. Layton. Cap. \$30,000. Harris Gulch, gold. Placer, hydraulic.
Ashland Ry. 692.	Ashland Mining Co., Portland, Ore., 13 Stark st. P. Kelly, pres.; H. T. Coffin, secy. and treas. Cap. stk. \$200,000. Patton and A. N. Karg, gold and silver. Shaft and tunnel, free. Joseph A. Wilson, supt.
Auburn Ry., Baker City 776.	Jas. L. Wells. Gold. Shaft, horse.
Baker City Ry. 776.	Bailey Elkhorn Mining Co., Portland, Ore., 110 First st. L. W. Nelson, pres.; mgr. and supt. S. J. Barber, secy. Cap. stk. \$100,000. Elkhorn, gold and silver. Shafts, tunnels and levels, 20,000 tons, free and retractor, steam. Bryan and Huntington mills.
" "	Baker City Gold & Silver Mining Co. Isador Leuchs, pres.; A. B. Elmer, secy.; A. H. Terry, treas. Cap. stk. \$20,000. Monumental and Light Squawk, gold and silver. Shaft and tunnels, free developing.
" "	Elkhorn Gold Mining Co., Portland, Ore., 138 First st. L. W. Nelson, pres.; Geo. N. Wadde, secy.; North Western Lode & Trust Co., Treas. Lewis O. Nelson, mgr. and supt. Cap. stk. \$100,000. Gold Medal and Gold Eagle, gold and silver. Shafts, tunnels, drifts and slopes, 9,000 tons, free and retractor, steam, mill.
" (12 miles).	Elkhorn Mining Co., Portland, Ore. J. H. Robbins, pres.; mgr. and supt. W. L. Harmon, secy.; L. G. Davidson, treas. Cap. stk. \$50,000. Elkhorn, gold and silver. Tunnel, free and retractor, water, mill.
" (17 miles).	Lureka & Excelsior Consolidated Mining Co., St. Louis, Mo., 706 Oriel Bldg. R. C. Kohns, pres.; C. H. Smith, secy. C. M. Donaldson, mgr. Cap. stk. \$5,000,000. Lureka and Excelsior, gold and silver. Time mills, retractor, steam, 20 stamps.
" (15 miles).	Geiser Estate. Albert Geiser, mgr. Bonanza, gold. Tunnel, 7,500 tons, free, steam, 10 stamps.
" "	Hodgins & Rohmer. G. R. Hodgins, pres. and mgr.; John Rohmer, secy.; P. R. Bishop, treas. and supt. Cap. \$30,000. Cow Bay, gold and silver. Tunnel, free developing.
" "	Jones & Carpenter. Cap. \$10,000. Never Sweat, gold. Placer, deep, hydraulic and water. Mosses Carpenter, supt.
" "	Robinson Gold Mining Co. Geo. W. Robinson, pres. and secy.; D. W. C. Nelson, mgr. and supt. Cap. stk. \$1,000,000. North Star, gold. Tunnel, 1,000 tons, retractor.
" (16 miles).	Robinson Mining Co. S. Ottenheimer, pres.; T. F. Waring, secy.; D. W. C. Nelson, treas., mgr. and supt. Cap. stk. \$1,000,000. Robinson, gold. Drift, retractor, developing.
" "	Snowstorm Consolidated Gold Mining Co., Bedford, Indiana. Thomas A. Thornton, pres.; Edmund B. Thornton, secy. and treas.; J. F. Meacham, mgr. and supt. Cap. stk. \$200,000. Snowstorm, Golden Chariot, Thornton, Windsor, Lily White, St. Albans and Lureka, gold. Slope and shaft, 9,000 tons, horse, water, 10 stamps.
" "	Washington Gulch Mining Co., Portland, Ore., 54 F. Oak st. S. M. Keenan, pres.; A. L. Keenan, secy. and treas.; Wm. Deemer, mgr. and supt. Cap. stk. \$12,500. Washington Gulch, gold. Placer, hydraulic.
Bolt Ry., Woodville 692.	Alexander Ormer. Brother, gold. Placer, water.
Bridgeport Ry., Baker City 776 20 mi. "	Burnt River Mining Co. Archie J. Murray, pres.; William Cox, secy.; J. H. Murray, treas.; F. Cayne, mgr. and supt. Cap. \$10,000. Chicken Bar, gold. Placer, hydraulic.
" "	Henry Heisey. Blue Bar, gold. Tunnel, placer.
Calde Cove, P. O. Baker City Ry., McKen, 776 10 mi.	Eagle Mining Co., L. C. Colbath, pres.; W. S. Crismon, secy. and treas.; John C. Young, mgr. Cap. \$100,000. Eagle Group, gold and silver. Shafts and tunnels, 10 tons, free and retractor.
Calde Ry., The Dalles, 776.	Owens, Erierson & Taswell. Spanish Gulch, gold. Placer, hydraulic.
Canyon City Ry., Baker City 776 7 mi. "	Hugh Cannon. Gold. Placer, water, hydraulic.
" "	Clark & Robinson. Last Chance, gold. Placer, hydraulic.
" "	William Hahn. Quartz Gulch, gold. Placer, hydraulic.
" "	Humboldt Mining Association. H. W. Shoen, mgr. Cap. stk. \$25,000. Humboldt, gold. Placer, hydraulic.
" "	J. A. Whitman. Cap. \$1,000. Whitmans, gold. Placer, hydraulic, water.
Canyonville Ry., Riddle 692.	Ash & McWilliams. Cap. \$15,000. M. W. Burns and Ash, gold. Placer, hydraulic.

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.		
TOWNS	AND	COUNTY.			
Canyonville	Douglas	D. J. Bollenbough. Pickune, gold. Placer, hydraulic, water.			
"	"	(Continued.)			
"	"	"	Last Chance Mining Co. Last Chance, gold, silver and copper. Tunnel; free, water. E. L. Goodridge, supt.		
"	"	"	D. A. Levens. Douglas, gold. Shaft and tunnel; free, water.		
"	"	"	James Yokum. Cap. \$500. Gold. Placer; hydraulic (developing).		
Connor Creek Ry. Huntington 776 (20 miles).	Baker	Connor Creek Mining & Milling Co., Portland, Ore., Abington Bldg. S. G. Reed, pres.; Martin Wynch, secy. and treas.; J. Myrick, mgr. and supt. Cap. \$1,000,000. Connor Creek, gold. Tunnel, 16,000 tons; free, water; 35 stamps.			
"	"	"	Dunning & Thomas. Cap. \$2,000. Albatross, gold. Open pit, placer, water.		
Cornucopia Ry. Union 776 (40 m.).	Union	Companion Mining Co. Gold and silver. Shaft and tunnel, free and refractory; steam; 5 stamps. E. P. Torrey, supt.			
"	"	"	Last Chance Mining Co. Last Chance, gold. Tunnels; free and refractory (developing).		
"	"	"	New Discovery Mining Co. New Discovery, gold and silver. Tunnels; free and refractory (developing). R. Kelly, supt.		
"	"	"	Norway Mining Co. Cap. \$1,000. Norway, gold. Tunnel, 3,000 tons, free and refractory; water; Huntington mill. Geo. Lindgreen, supt.		
"	"	"	Nyanza Mining Co. Nyanza, silver. Shaft, free and refractory (developing). Robert Kelly, supt.		
"	"	"	Oregon Gold Mining Co., Louisville, Ky., 514 W. Main st. Geo. H. Dietz, pres.; H. W. Bohmer, secy.; A. L. Schmidt, treas.; O. P. Steen, mgr. Cap. \$1,000,000. Red Jacket and Whitman, gold and silver. Tunnel, 10,000 tons; free and refractory. steam and water, 20 stamps. J. H. Wilson, supt.		
"	"	"	Queen of the West Mining Co., gold. Shafts and inclines; free, hand (developing). Robert Kelly, supt.		
"	"	"	Stella Mining Co., Stella, gold and silver. Tunnel; free and refractory (developing). W. S. Wilson, supt.		
"	"	"	Union Mining Co. Anstead, Tice & Burdett, proprs. Union, gold and silver. Tunnel; free and refractory (developing).		
Eugene P. O. and Ry. Myrtle Creek 692.	Douglas	Myrtle Creek Hydraulic Gold Mining & Manufacturing Co., Eugene, Ore. L. W. Brown, pres., mgr. and supt. J. F. Robinson, secy.; T. G. Hendricks, treas. Cap. \$1,000,000. Myrtle Creek, gold. Placer, hydraulic.			
Glendale Ry. 692.	Douglas	J. T. C. Nash. Nash, gold. Placer; hydraulic, water.			
Granite Ry. Baker City 756 (35 m.).	Grant	Bansley & Klopp. Cap. \$1,000. Bansley & Klopp, gold. Placer, deep, hydraulic, water. Isane Klopp, supt.			
"	"	"	Fairway. Ophir Mining Co., Pendleton, Ore., Calvin cor. W. R. R. st. Peter Parmentier, pres.; R. R. Dixon, secy., David Horn, treas., Frank Ophir, mgr. and supt. Cap. \$1,500,000. Encouragement, gold, silver, copper and lead. Shaft, hand and horse, mill, 40 stamps.		
"	"	"	Granite & Greenhorn Milling and Mining Co., A. G. Taylor, pres.; C. S. Miller, secy., mgr. and supt. Cap. \$1,250,000. Monumental and Morris Consolidated, silver. Shafts and tunnels, refractory; steam, 20 stamps.		
"	"	"	Grant Silver Mining Co., Portland, Ore., cor. Front S. st. Geo. W. Weidler, pres.; Thomas Gray, secy., and treas.; J. C. Powers, mgr. and supt. Cap. \$1,000,000. Intrinsic and others, gold and silver. Shafts and tunnel, refractory, steam.		
"	"	"	G. H. Gutridge & Co., G. H. Gutridge, pres.; Harry Mack, secy.; M. Thornburg, treas.; E. E. Thornburg, mgr. Cap. \$1,000. Camp Mason, gold. Placer; water. A. J. Dickson, supt.		
Grants Pass Ry. 692.	Josephine	T. J. & J. T. Clark. Cap. \$100,000. Quartz Boulder, gold. Placer, hydraulic. T. J. Clark, supt.			
"	"	"	Rogue River Mining & Developing Co. J. T. Flynn, pres.; A. C. Taylor, secy. and supt.; Robert G. Smith, treas. Cap. \$1,000,000. Conductor and Gray Mile, gold. Tunnel and shafts, 1,000 tons; free and refractory; steam, 10 stamps.		
Greenhorn P. O. Austin Ry. Mc- Ewen 756 (30 miles).	Grant	C. G. Nelson, Austin, Ore. Greenhorn, gold. Placer; water.			
Harney Ry. 776	Harney	Robert Drinkwater. Gold. Placer, water (developing).			
Ibid Ry. Harney 776 (30 m.).	Harney	Bomer & Gilliam, Main st. Cap. \$1,000. Big Boulder, gold and silver. Shaft, free, hand.			
"	"	"	Heath & Roberts, Harney City, Ore. E. A. Heath, pres.; John E. Roberts, secy., and treas.; D. A. Cawthold, mgr. and supt. Cap. \$1,000,000. General Heath, gold. Placer, hand.		
"	"	"	J. A. J. E. & J. H. Logan. Cap. \$12,000. Gold. Placer (developing).		
"	"	"	Reine, Black & Kitching, Portland, Ore., 159 Seventh st. C. R. Black, mgr., Charlyout, gold and silver. Refractory. E. H. Reine, supt.		
"	"	"	Samuel Beach. Cap. \$4,000. Gold. Open pit, placer.		
Jacksonville Ry. 692	Jackson	Jacksonville Mining & Milling Co., Jeremiah Numan, pres.; Silas J. Day, secy.; Thomas J. Kenney, treas.; D. Greenmiller, mgr. Cap. \$1,000,000. Jacksonville, gold. Tunnel, free and refractory, hand (developing). Henry Klippie, supt.			
Joseph Ry. Elgin 776.	Wallowa	Royal Purple Mining Co., T. J. Dean, pres., mgr. and supt.; T. M. Dean, secy.; J. F. Cutler, treas. Cap. \$1,000,000. Royal Purple, silver and copper. Tunnel, free and refractory, water, concentrator, crusher and furnace, 5 stamps.			
La Grande Ry. 776.	Union	Chloride Mining & Milling Co., Portland, Ore., 34 Stark st. F. W. Palmer, pres.; M. D. Wisdom, secy.; R. L. Orinham, treas.; J. K. Romig, mgr. Cap. \$1,000,000. Chloride, gold and silver. Tunnel, 500 tons; free, water; J. J. Taylor, supt.			
Leand Ry. 692	Josephine	Alta Ditch Co., Grants Pass, Ore. L. C. Windom, pres.; J. W. Sherer, secy. and treas.; John A. Niday, mgr. and supt. Cap. \$1,000,000. Gold. Placer.			

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Leland	Josephine	L. N. Browning, Browning, gold, Placer.		
(Continued.)				
Malheur	Malheur	Samuel & Horan Gold, Cap. \$10,000, Tip Top, Humboldt and Autocrat, gold, Shaft, tunnel and slope, 500 tons, tree, steam, 2 stamps.		
Prarie, Ky.	Laramie	W. E. Gilford, Present Need, gold and silver, Shaft and tunnel, 100 tons, tree and refractory, steam.		
	Baker City 776	67		
"	"	Geo. E. Robinson & Co., Colorado, gold, Tunnel, 350 tons, refractory, steam, 5 stamps, Geo. E. Rob- inson, supt.		
Riddles	Douglas	Canyonville Mining, Water & Manufacturing Co., Eugene, Ore., E. C. Smith, pres., Hon. A. C. Wood- cock, secy., Cap. stk. \$500,000, Canyonville, gold, Placer, hydraulic developing.		
	Ry. 692	692 miles.		
"	"	S. S. Catling, Cap. \$500, Gold, Placer.		
"	"	John Hudson, Cap. \$2,000, Gold, Open pit, water developing.		
Rock Creek	Baker	Robinson Mining Co., Geo. W. Robinson, pres., D. W. C. Nelson, secy. and treas., F. C. Smith, mgt. and supt., Cap. stk. \$1,000,000, North Star, gold, Tunnel, 100 tons, tree and refractory, steam and water, mft.		
	P. O. and Ry. Baker	City 776.		
Rye Valley	Baker	Cartwright Bros., lessees, Rye Valley, gold, Placer.		
	Ry. Weatherby 776	45		
"	"	H. B. Franks, Silver Blue and Extens on, gold and silver, Tunnel, tree, hand and arrastre.		
"	"	John Frisco, Bonanza, gold, Placer, hydraulic.		
Sanger	Union	C. T. Bradley Mining Co., Daggett, Cal., C. M. Sanger, pres., A. F. Sanger, secy., C. T. Bradley, treas., Cap. stk. \$100,000, Summit, gold and silver, Shaft, 1000 tons, tree, steam, 10 stamps, W. J. Downey, supt.		
	Ry. Union 776	30 m.		
"	"	Shurtz Bros., Baker City, Oregon, Bonanza, gold, Shaft, refractory, horse.		
Sardine Creek	Jackson	N. & C. Ritter, Lucky Hit, gold, Tunnel, tree, horse and hand, arrastre, N. Ritter, supt.		
	P. O. Rock Point Ry.	Gold Hill 692		
Spanish Gulch	Grant	Mule Gulch Mining Co., W. W. Cowne, pres. and mgt., R. A. Gibbons, secy., W. B. Cowne, treas., Cap. stk. \$20,000, Mule Gulch, gold, Placer, hydraulic, F. Seyler, supt.		
	P. O. Galesburg Ry. The	Bullies 776.		
Sparta	Union	F. H. Boyer, Walter Wachs, Wash., Boyer's, gold, Placer, hydraulic, F. H. Boyer, Whitney, supt.		
	Ry. Baker City 776.			
"	"	Eastern Oregon Gold Mining Co., Detroit, Mich., Geo. W. Robinson, pres., Geo. H. Lathrop, secy. and treas., Cap. stk. \$100,000, Little Arching, gold, Shaft and tunnel, 200 tons, tree, hand, F. C. Smith, supt.		
"	"	Jay Gay Lewis, Silver Queen and Livingston, gold, Shafts, tunnels, 200 tons, tree and refractory, horse.		
"	"	Ore Depl. Mining & Milling Co., Chicago, Ill., 225 Dearborn st., W. W. Watson, pres., Chas. N. Hale, secy. and treas., F. A. H. (the mgt. and supt., Cap. stk. \$100,000, Ore Depl., Belle of Kansas and others, gold, Shaft and tunnel, tree, steam, mft.		
"	"	Snowstorm Consolidated Gold Mining Co., Bedford, Ind., F. B. Thornton, pres., F. B. Thornton, secy. and treas., J. F. Merdith, mgt. and supt., Cap. stk. \$50,000, Snowstorm, gold, Shaft and slope, tree, water, 10 stamps.		
Sterling	Jackson	Sterling Mining Co., Portland, Ore., Vincent Cook, pres., O. L. Cook, secy. and treas., Henry F. An- keny, mgt. and supt., Cap. stk. \$20,000, Sterling, gold, Placer, water.		
	P. O. and Ry. Jackson	Valley 692		
Sumpter	Baker	Mary Ames Consolidated Placer Mining Co., Cap. stk. \$5,000, Mary Ames, 2000, Placer, hydraulic, A. Downey, supt.		
	Ry. Baker City 776.			
Susannah	Grant	Shoan & Haskell, Gold, Placer, 12 ant., steam.		
	Ry. Heppner 776			
Waldo	Josephine	Geo. Simmons & Z. Cameton, Geo. Simmons, mgt. and supt., Simmons & Co., gold.		
	Ry. Grant's Pass 692			
"	"	Waner Bros. & Co., Oakland, Cal., 100 Washington st., Waldo, 2000, Deep, hydraulic.		
Wolf Creek	Josephine	William & Ruth Rolfe, Cap. \$7,000, Wolf Creek, 2000, Open pit, deep, water, S. C. Rolfe, supt., hydraulic mine inspected.		
	Ry. 692 miles.			
Woodville	Jackson	Alex Wilson, Gold, Placer, water.		
	Ry. 692			

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Oswego	Clackamas	Oregon Iron & Steel Co., Portland, Ore., 106 Third st., Theo. B. Watson, pres., J. Frank Watson, secy. and mgt., Ladha, Linton, treas., Cap. stk. \$1,700,000, Prosser and Pond, iron concentrate, Shaft and tunnel, 1000 tons, steam, J. H. Pomeroy, supt.		
	Ry. 692.			

KAOLIN

LOCATION OF MINE,
OR BANK,
RAILWAYS, WATER ROUTES,
AND SHIPPING POINT.

TOWN AND COUNTY

Huntington Baker
Mine in Malheur Co.,
Ry. 776.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER
USED, ETC., AND NAME OF SUPERINTENDENT.

American Kaolin Co., Portland, Ore., 140 Second St., J. F. Edwards, pres.; Robert R. Tuttle, secy.;
F. C. Brodie, treas.; James Sidweeks, mgt. Cap. stk. \$1,000,000. Kaolin (developing).

LEAD AND ZINC

LOCATION OF MINE,
RAILWAYS, WATER ROUTES,
AND SHIPPING POINT.

TOWN AND COUNTY

Pendleton A. Brattika
Ry. 776.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND
OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.

Golden Hill Mining & Milling Co., 113 Court St., Jacob Frazer, pres.; W. P. Lathrop, secy.; B. F. Rehn,
treas.; James A. Howard, v.-pres. and mgt. Cap. stk. \$750,000. Anthracite, lead, shaft and tunnel.

MINERAL PAINT

LOCATION OF MINE,
RAILWAYS, WATER ROUTES,
AND SHIPPING POINT.

TOWN AND COUNTY

Edna Jackson
Ry. Gold Hill 792.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND
OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

H. Richardson. Mineral paint. Open pit.

NICKEL

LOCATION OF MINE,
RAILWAYS, WATER ROUTES,
AND SHIPPING POINT.

TOWN AND COUNTY

Biddle Douglas
Ry. 692 (4 miles).

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND
OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.

Edson Adams & Harvey S. Brown, San Francisco, Cal., Fourth and Townsend Sts., Oregon (develop-
ing). W. Q. Brown, supt.

International Nickel Mining Co., Chicago, Ill., Chamber of Commerce Bldg., cor. La Salle and Washing-
ton sts., James R. Ashley, pres.; Will. H. Taylor, secy., treas. and mgt. Cap. stk. \$5,000,000. Rid-
dles. Shaft, tunnel and open pit, 600 tons; steam. Will Q. Brown, supt.

PRECIOUS STONES

LOCATION OF MINE,
RAILWAYS, WATER ROUTES,
AND SHIPPING POINT.

TOWN AND COUNTY

Burdick Morrow
Ry. Heppner 776.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, KIND OF POWER USED, ETC.,
AND NAME OF MINE SUPERINTENDENT.

William A. Fisher. Peters, opals.

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE
OR QUARRY,
RAILWAYS, WATER ROUTES,
AND SHIPPING POINT.

TOWN AND COUNTY

Forest Grove Washington
Ry. 692.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF
2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND
CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

Forest Grove Stone Co., J. G. Eads, pres.; F. H. Holtzhausen, secy.; A. A. Speer, treas.; J. Hansen, mgt.
Cap. stk. \$80,000. Forest Grove, blue sandstone. Open pit, steam (developing).

Lime Station Baker
P. O. Huntington Ry.
776.

Oregon Marble & Lime Co., Portland, Ore., T. F. Bourke, pres. and mgt.; Charles F. Boyce, secy.;
C. E. S. Wood, treas. Cap. stk. \$75,000. Limestone. Open pit, 15,000 tons; hand, kilns, 10,000 tons.
W. L. Peake, supt.

St. Helen Columbia
Ry. 792.

Burke's Quarry, Portland, Ore., 792 Morrison St., Burke's, basalt rock, 2,000 tons.

PENNSYLVANIA

COAL, ANTHRACITE

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING PORT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COAL OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWN	AND	COUNTY	
Alaska	Northumberland		Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 27 S. Fourth st., A. A. McLeod, pres't, and P. O. Strong, Pa., Ky. 578.
Albion Station	Luzerne		Albion Coal Co., Belvidere st., pres't, George H. Myers, sec'y., Richard Sharpe jr., treas. Cap. stk. \$200,000. Albion. Tunnel and shaft, 300,000 tons, steam, breaker. R. M. Smith, supt.
Archbald	Lackawanna		Delaware & Hudson Canal Co., Scranton, Pa., 301 Providence pl., R. M. Olyphant, pres't., F. M. Oly- phant, sec'y., C. A. Walker, treas., H. G. Young, mgr., Cap. stk. \$300,000. White Oak. Slope and Ky. 243, 505.
"	"		Riverside Coal Co., Scranton, Pa., J. S. J. W. Platts, pres't., Thos. F. Jones, sec'y. and treas., John Reese, mgr., Cap. stk. \$200,000. Riversdale. 125,000 tons, steam, breaker. Thos. J. Williams, supt.
Ashland	Schenck		Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 27 S. Fourth st., A. A. McLeod, pres't, and Ky. 336, 578.
Ashley	Luzerne		Delight & Wilkes Barre Coal Co., New York City, Central Bldg., J. R. Maxwell, pres't., W. F. Zoll, sec'y. and treas., Elmer H. Lawall, supt., Jersey, N. J., 1942, 14,775 tons, steam, breaker. R. M. Mer- gans, supt.
Andover	Carbon		C. M. Dodson & Co., Bethlehem, Pa., C. M. Dodson, pres't., A. S. S. Inskip, sec'y. and treas., E. I. Bidlock, Ky. 336, 578.
"	"		Delight & Wilkes Barre Coal Co., New York City, 143 Liberty st., J. R. Maxwell, pres't., W. F. Zoll, sec'y. and treas., E. H. Lawall, mgr., Henry Brook, N. J., 1942, 14,775 tons, steam, breaker and washer, D. J. Thomas, D. F. Roberts, supt.
Avoon	Luzerne		Avoon Coal Co., Ltd., C. C. Bowman, pres't., F. T. Bowman, sec'y. and treas., W. H. Hollister, mgr., Cap. Ky. 243, 505, 509.
"	"		Florence Coal Co., Ltd., Scranton, Pa., 12 Lackawanna av., W. B. Whitely, pres't., J. P. K. Henshaw, sec'y. Chris. P. Matthews, treas., A. S. H. Moore, mgr. and supt., Cap. stk. \$80,000. T. Inwood. Shaft, 116,750 tons, steam, breaker.
"	"		Langeloth Coal Co., Scranton, Pa., Lackawanna av., R. G. Brooks, pres't., J. R. Brooks, sec'y., J. A. Meary, treas., Langeloth. Shaft and tunnel, steam, breaker.
Beaver Meadows	Carbon		William T. Carter & Co., Philadelphia, Pa., 902 Walnut st., Cap. \$100,000. Codrington. Slopes, 120,000 tons, Ky. 336.
"	"		Coxe Bros. & Co., Dighton, Pa., Cross Creek Collieries. Tunnel, 10,000 tons, steam, coal breakers and washers, J. R. Cox, supt.
"	"		Evans Mining Co., H. J. Bogardus, pres't., Chas. Hall, sec'y., John D. Evans, treas., mgr. and supt. Cap. stk. \$100,000. Evans. Slope, 20,000 tons, steam, breaker and washer.
Bethune	Sullivan		Stableman & Sullivan M. R. Co., Leavitt, Pa., J. Raymond Colquhoun, pres't., C. A. Balduin, sec'y. and Ky. 336.
"	"		Tras. J. O. Blight, mgr. and supt., Cap. stk. \$100,000. Bethune. Tunnel, 100,000 tons, steam, breaker and washer.
Blackwood	Schenck		Delight Valley Coal Co., Philadelphia, Pa., 228 S. Third st., F. L. Sha, P. W. Wilson, pres't., J. R. Fanshawe, Ky. 550, 303.
"	"		sec'y., Wm. C. Anderson, treas., W. A. Lathrop, mgr. and supt., Cap. stk. \$20,000. Blackwood, 8,000 tons, steam, breaker.
Branch Dale	Schenck		Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 27 S. Fourth st., A. A. McLeod, pres't, and Ky. 578.
Brownsville	Schenck		Delight Valley Coal Co., Philadelphia, Pa., 228 S. Third st., F. L. Sha, P. W. Wilson, pres't., J. R. Fanshawe, Ky. 550, 303.
"	"		sec'y., Wm. C. Anderson, treas., W. A. Lathrop, mgr. and supt., Cap. stk. \$20,000. Brownsville, 90,000 tons, steam, breaker.
Carbondale	Lackawanna		Delaware & Hudson Canal Co., Scranton, Pa., 301 Providence pl., R. M. Olyphant, pres't., F. M. Oly- phant, sec'y., C. A. Walker, treas., H. G. Young, mgr., Cap. stk. \$300,000. Clinton and Powderly slopes, Ky. 243, 503, and 505.
"	"		Coal Brook, W. Scott & Co. and Keokuk. Branch 1 and 2. Clinton and Powderly slopes, 1 and 2 shafts, 6,000 tons, steam and horse, breakers. Andrew Nicol, supt.
"	"		Northwest Coal Co., Scranton, Pa., C. D. Simpson, pres't., A. F. Fay, sec'y., J. H. Watkins, treas., Cap. stk. \$100,000. Northwest. Slope, 100,000 tons, steam, breaker. James L. Claydon, supt.
"	"		Stroud & Chamberlain, Belmont st. and Oak av., G. T. Chamberlain, mgr. and supt., Cap. stk. \$30,000. Clinton and Belmont. Slope and tunnels, 65,000 tons, steam, breaker.
"	"		Wm. F. Williams, 100 S. Church st., Cap. \$100. Tunnel, 100,000 tons, hand, breaker.
Centraha	Columbia		Delight Valley Coal Co., Philadelphia, Pa., 228 S. Third st., F. L. Sha, P. W. Wilson, pres't., J. R. Fanshawe, Ky. 336.
"	"		sec'y., Wm. C. Anderson, treas., W. A. Lathrop, mgr. and supt., Cap. stk. \$20,000. Centraha. Confidential.
"	"		Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 27 S. Fourth st., A. A. McLeod, pres't, and Ky. 578.
Coaldale	Schenck		Delight Coal & Navigation Co., Philadelphia, Pa., 24 S. Third st., Joseph S. Hart, pres't., S. Shephard, Ky. 118.
"	"		sec'y. and treas., W. D. Zehner, mgr., Cap. stk. \$14,750. Delight. Nos. 1 & 2. 100,000 tons, steam and horse, breaker. R. C. Fisher, supt.
Deringer	Luzerne		Coxe Bros. & Co., Cross Creek. Shaft, 10,000 tons, steam, breaker and washers, J. R. Cox, supt.
Dicksonville	Lackawanna		Elk Hill Coal & Iron Co., Scranton, Pa., 17 S. Main st., Wm. H. R. Smith, pres't, sec'y. and mgr., Ky. 243, 505.
"	"		F. K. Richmond, sec'y., Cap. stk. \$50,000. Dicksonville. Shaft, 50,000 tons, steam, breaker. F. K. Richmond, supt.

COAL—ANTHRACITE (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Dighton		Luzerne	Coxe Bros. & Co., Cross Creek. Shaft, 192,000 tons; steam. E. B. Coxe, supt.	
Dighton	Ry. 118, 393.			
Dunmore		Lackawanna	Murray & Co., M. J. Murray, prest. and supt.; Thomas Brown, secy.; John Carney, treas.; A. J. Murray, mgr. Cap. stk. \$25,000. Murray's. Shaft, 25,000 tons; steam; breaker.	
Dunmore	Ry. 252.			
Duryea		Luzerne	Babylon Coal Co., Scranton, Pa. T. H. Watkins, prest.; W. G. Parke, secy.; C. D. Simpson, treas. Cap. stk. \$200,000. Babylon. Shaft, 25,000 tons; steam; breaker. James L. Crawford, supt.	
"	Ry. 260, 252, 393.			
"			Old Forge Coal Co., Ltd., New York City, 1 Broadway. John A. Mears, prest. and mgr.; J. Alton Davis, secy.; C. S. Crane, treas. Cap. stk. \$30,000. Columbia and Phoenix. Shafts and tunnel, 300,000 tons; steam; breaker.	
Eagle Hill		Schuylkill	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa. 27 S. Fourth st. A. A. McLeod, prest. and mgr.; F. P. Kaercher, secy.; W. A. Church, treas. Eagle Hill. 167,000 tons; steam; breaker. R. C. Lathrop, supt.	
Eagle Hill	Ry. and P. O. Pottsville 393, 563, 570, 578.			
Eckley		Luzerne	Coxe Bros. & Co., Drifton, Pa. Cross Creek Collieries. Slope, 192,000 tons; steam; breakers and washers. E. B. Coxe, supt.	
Eckley	Ry. 118, 393.			
Edwardsville		Luzerne	The Kingston Coal Co., Kingston, Pa. Daniel Edwards, prest. and mgr.; Elliott R. Morgan, secy. and treas. Cap. stk. \$1,000,000. Kingston. Shafts, 500,000 tons; steam and compressed air; 2 breakers. G. W. W. Edwards, supt.	
Edwardsville	Ry. and P. O. Kingston 260.			
Excelsior		Northumberland	Excelsior Coal Co., Shamokin, Pa. A. Robertson, prest.; C. W. Kingsley, secy. and treas.; A. D. Robertson, mgr. and supt. Excelsior. Slopes and tunnels, 268,000 tons. Steam and horse; breaker.	
Excelsior	Ry. 578.			
Exeter		Luzerne	Lehigh Valley Coal Co., Philadelphia, Pa. 228 S. Third st. Elisha P. Wilbur, prest.; J. R. Fanshawe, secy.; Wm. C. Alderson, treas.; W. A. Lathrop, mgr. and supt. Cap. stk. \$650,000. Exeter. Shaft, 47,225 tons; steam; breaker.	
Exeter	Ry. Pittston 260, 213, 393.			
"			Stevens Coal Co., Pittston, Pa. (West Side). Mito J. Wilson, prest.; C. W. Wesner, secy.; F. E. Stevens, treas.; F. A. Stevens, mgr. Cap. stk. \$200,000. Stevens. Shaft, breaker (developing).	
Fell		Lackawanna	John Murray. Fall Brook. Tunnel, 1,200 tons; steam; breaker.	
Fell	Ry. and P. O. Carbondale 213, 592.			
Gilberton		Schuylkill	Draper Colliery, Pottsville, Pa. H. L. Williams, gen. mgr. and supt. Cap. \$500,000. Draper. Slopes and tunnels, 220,000 tons; steam; coal breaker and washer.	
Gilberton	Ry. 563, 578.			
"			Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa. 27 S. Fourth st. A. A. McLeod, prest. and mgr.; F. P. Kaercher, secy.; W. A. Church, treas. Gilberton. 255,000 tons; steam; breaker. John Veith, supt.	
"			Stoddard Coal Co., Chas. E. Breckons, prest.; Guy C. Irish, secy. and treas.; Wm. J. McCarthy, mgr. and supt. Cap. stk. \$25,000. Stoddard. 75,000 tons; steam; breaker and washer.	
Guadalupe		Schuylkill	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa. 27 S. Fourth st. A. A. McLeod, prest. and mgr.; F. P. Kaercher, secy.; W. A. Church, treas. Preston Nos. 2 and 3, Girard and Hammond. 290,500 tons; steam; breakers; John Veith, supt.	
Guadalupe	Ry. 393, 578.			
Glen Carbon		Schuylkill	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa. 27 S. Fourth st. A. A. McLeod, prest. and mgr.; F. P. Kaercher, secy.; W. A. Church, treas. Richardson. 145,000 tons; steam; breaker. R. C. Lathrop, supt.	
Glen Carbon	Ry. 578.			
Gowen		Luzerne	Coxe Bros. & Co., Drifton, Pa. Cross Creek. 192,000 tons; steam; coal breakers and washers. E. B. Coxe, supt.	
Gowen	Ry. 563.			
Harwood		Luzerne	Pardee Sons & Co., Lattimer Mines, Pa. C. Pardee, mgr. Cap. \$500,000. Harwood. Slopes, 215,000 tons; steam; coal breaker and washer. A. W. Drake, supt.	
Harwood	Ry. 578.			
Highland		Luzerne	G. B. Markle & Co., Jeddo, Pa. Highland Nos. 1 and 2. Slopes, 200,000 tons; steam; coal breaker. John Markle, supt.	
Highland	Ry. and P. O. Jeddo 393.			
Hollywood		Luzerne	Calvin Pardee & Co., Lattimer Mines, Pa. C. Pardee, mgr. Cap. \$500,000. Hollywood. Slopes, 230,000 tons; steam; coal breaker and washer. A. W. Drake, supt.	
Hollywood	Ry. and P. O. Lattimer Mines 393, 578.			
Humboldt		Luzerne	Lindenbaum & Skeer, South Bethlehem, Pa. Cap. \$1,200,000. Humboldt Mine. Slope, 84,000 tons; steam and horse; breaker. Jas. E. Roderick, supt.	
Humboldt	Ry. and P. O. Hazleton 393.			
Loudett		Schuylkill	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa. 27 S. Fourth st. A. A. McLeod, prest. and mgr.; F. P. Kaercher, secy.; W. A. Church, treas. Good Spring. 54,000 tons; steam; breaker. R. C. Lathrop, supt.	
Loudett	Ry. and P. O. Pottsville 578, 393, 563, 570.			
Jeddo		Luzerne	G. B. Markle & Co., Jeddo Nos. 3 and 4. Shafts, 220,200 tons; steam; coal breaker. John Markle, supt.	
Jeddo	Ry. 118, 393.			
Jermyn		Lackawanna	Delaware & Hudson Canal Co., Scranton, Pa. 200 Providence pl. R. M. Olyphant, prest.; F. M. Olyphant, secy.; C. A. Walker, treas.; H. G. Young, mgr. Cap. stk. \$30,000,000. Jermyn No. 1 shaft. 188,500 tons; steam and horse; breaker. Andrew Nicol, supt.	
Jermyn	Ry. 213, 505.			
"			Edgerton Coal Co., Ltd., Scranton, Pa. C. D. Simpson, prest.; T. H. Watkins, secy.; W. G. Parke, treas. Cap. stk. \$20,000. Edgerton. Tunnels, 250,000 tons; steam; coal breaker. Jas. L. Crawford, supt.	
"			Westside Coal Co., S. D. Davis, prest. and mgr.; J. Alton Davis, secy. Cap. \$4,000. Sunshine. Tunnel, 10,000 tons; steam; breaker. John F. Nicholson, supt.	
Kingston		Luzerne	Lehigh Valley Coal Co., Philadelphia, Pa. 228 S. Third st. Elisha P. Wilbur, prest.; J. R. Fanshawe, secy.; Wm. C. Alderson, treas.; W. A. Lathrop, mgr. and supt. Cap. stk. \$650,000. Maltby. Shaft, 34,000 tons; steam; breaker.	
Kingston	Ry. 260.			
Lattin		Luzerne	Amora Coal Co., Wilkes Barre, Pa. Charles Parrish, prest. and mgr.; Wm. C. Allen, secy.; Theo. F. Ryan, treas. Cap. stk. \$200,000. Amora. Slopes and tunnels, 160,000 tons; steam; breaker. John N. Conyngham, supt.	
Lattin	Ry. 216.			
Laurelton		Carbon	Lehigh Coal & Navigation Co., Philadelphia, Pa. 234 S. Third st. Jos. S. Harris, prest.; S. Shepherd, secy. and treas.; W. D. Zehner, mgr. and supt. Cap. stk. \$14,355,620. Collieries Nos. 1, 5 and 6. 240,000 tons; steam and horse; breaker.	
Laurelton	Ry. 118.			
Lattimer Mines		Luzerne	Pardee Bros. & Co., C. Pardee, mgr. Cap. \$500,000. Lattimer. Slopes, 215,000 tons; steam; breaker and washer. A. W. Drake, supt.	
Lattimer Mines	Ry. Mifflintown 23.			

COAL, ANTHRACITE—(CONTINUED)

LOCATION OF MINE, RAILWAYS, SHIPPING ROUTES AND WATER FRONT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Laurel Run	Luzerne	Red Ash Coal Co., Wilkes-Barre, Pa., 18 Coal Exchange, 1000 H. Fattish, pres.; W. Leavenworth, secy., and treas.; M. B. Williams, mgr.; Cap. stk., \$800,000. Red Ash, Nos. 1 and 2. Slopes, 350,000 tons, steam, 2 breakers, P. H. Garrahm, supt.		
Lea	Luzerne	Newport Coal Co., Wilkes-Barre, Pa., Chas. Fattish, pres.; and mgr.; Wm. C. Allen, secy., and treas.; Cap. stk., \$300,000. Newport. Slopes, 5500 tons, steam, coal breaker, John Williams, supt.		
Llewellyn	Schuylkill	Albright Coal Co., James Archibald, pres.; Joseph A. Archibald, secy., and treas.; Cap. stk., \$200,000 tons, steam. James Archibald jr., supt.		
Loeast Dale	Schuylkill	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 27 S. Fourth st., A. A. McLeod, pres.; and mgr.; F. P. Kaercher, secy.; W. A. Church, treas.; Keystone and Potts, 50,000 tons, steam, breaker, John Veith, supt.		
Loeast Gap	Northumberland	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 27 S. Fourth st., A. A. McLeod, pres.; and mgr.; F. P. Kaercher, secy.; W. A. Church, treas.; Monitor, Loeast Gap and Loeast Spring, 40,200 tons, steam, breaker, John Veith, supt.		
Loeast Summit	Northumberland	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 27 S. Fourth st., A. A. McLeod, pres.; and mgr.; F. P. Kaercher, secy.; W. A. Church, treas.; Merriam, 12,000 tons, steam, breaker, John Veith, supt.		
Lorberry Jct.	Schuylkill	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 27 S. Fourth st., A. A. McLeod, pres.; and mgr.; F. P. Kaercher, secy.; W. A. Church, treas.; Old Lincoln, 18,200 tons, steam, breaker, R. C. Luthier, supt.		
Lost Creek	Schuylkill	Lehigh Valley Coal Co., Philadelphia, Pa., 28 S. Third st., Elsie P. Wilbur, pres.; J. R. Farnshaw, secy.; Wm. C. Alderson, treas.; W. A. Lathrop, mgr. and supt.; Cap. stk., \$500,000. Packer Nos. 2 and 4, 22,500 tons, steam, breaker.		
Luzerne	Luzerne	Plymouth Coal Co., Wilkes-Barre, Pa., Coal Exchange, Black Diamond. Shaft, 25,000 tons, steam and compressed air, breaker, James B. Davies, supt.		
Lykens	Dauphin	Lykens Valley Coal Co., Philadelphia, Pa., 26 S. Fourth st., J. J. Wistar, pres.; N. Whitman, secy.; A. Hayland, treas.; I. A. Stearns, mgr. Short Mountain. Tunnel, drift and slopes, 27,500 tons, steam and electricity, breaker and washer, E. M. Williams, supt.		
Mahanoy City	Schuylkill	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 27 S. Fourth st., A. A. McLeod, pres.; and mgr.; F. P. Kaercher, secy.; W. A. Church, treas.; Mahanoy City, North Mahanoy, Schuylkill, Tunnel Ridge, Mahanoy and Jig House, 60,000 tons, steam breakers and washer, John Veith, supt.		
Mahanoy Plane	Schuylkill	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 27 S. Fourth st., A. A. McLeod, pres.; and mgr.; F. P. Kaercher, secy.; W. A. Church, treas.; West Bear Ridge, 8500 tons, steam, breaker, John Veith, supt.		
Maple Dale	Schuylkill	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 27 S. Fourth st., A. A. McLeod, pres.; and mgr.; F. P. Kaercher, secy.; W. A. Church, treas.; Plantation, 60,250 tons, steam, breaker, John Veith, supt.		
Marswood	Lackawanna	Moose Mountain Coal Co., Scranton, Pa., F. B. Leonard, pres.; W. W. Watson, secy.; Chas. P. Ford, mgr. and supt.; Cap. stk., \$100,000. Moose Mountain. Slope and drifts, 7500 tons, steam, breaker.		
Mill Creek	Schuylkill	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 27 S. Fourth st., A. A. McLeod, pres.; and mgr.; F. P. Kaercher, secy.; W. A. Church, treas.; Middlebrook. Shaft, 50,000 tons, steam, breaker, R. C. Luthier, supt.		
Middleport	Schuylkill	Lehigh Coal & Navigation Co., Philadelphia, Pa., 24 S. Third st., Jos. S. Harris, pres.; S. Shepherd, secy., and treas.; W. D. Zehner, mgr. and supt.; Cap. stk., \$14,750,000. Kaiska William, 50,000 tons, steam and horse, breaker.		
Milnesville	Luzerne	A. S. Van Winkle, Hazleton, Pa., Cap. \$100,000. Milnesville. Slope and open pit, 25,000 tons, steam, breaker and washer, J. F. Hollenbeck, supt.		
Miners Mills	Luzerne	Delaware & Hudson Canal Co., Scranton, Pa., 234 Providence pl., R. M. Olyphant, pres.; I. M. Olyphant, secy.; C. A. Walker, treas.; H. G. Young, mgr.; Cap. stk., \$500,000. Pine Ridge. Shaft, 15,000 tons, steam and horse, breaker. Andrew Nixon, supt.		
"	"	Wardell & Co., Pittston, Pa., Cap. \$100,000. Bennett. Shaft, 7200 tons, steam, breaker, Robert McEntelme, supt.		
Moanunga	Luzerne	West End Coal Co., Shicklamy, Pa., Chas. M. Cunningham, pres.; Wm. C. Allen, secy.; M. H. Arnold, treas.; John Leasdale, mgr.; Cap. stk., \$80,000. West End. Tunnel, 22,000 tons, steam, breaker, Lewis L. Sarge, supt.		
Moose	Lackawanna	Robertson & Law, Cap. \$15,000. Katy Dod. Slopes, 25,000 tons, steam, breaker. John Foster, supt.		
Morea	Schuylkill	Dodson Coal Co., Bethlehem, Pa., C. M. Dodson, pres.; Joseph Bachman, secy., and treas.; F. L. Bock, mgr. and supt.; Cap. stk., \$20,000. Morea. Slope and open pit, 13,000 tons, steam, coal breaker.		
MTA and Northumberland		Ferndale Coal Co., F. J. Phillips, mgr. and supt.; Cap. stk., \$100,000. Ferndale. Slopes, 10,000 tons, steam and horse, breaker.		
"	"	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 27 S. Fourth st., A. A. McLeod, pres.; and mgr.; F. P. Kaercher, secy.; W. A. Church, treas.; Belmore, 10,000 tons, steam, breaker and washer, John Veith, supt.		
"	"	Thomas M. Righter & Co., Slopes, 10,000 tons, steam, breaker.		
Mt. Lefee	Schuylkill	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 27 S. Fourth st., A. A. McLeod, pres.; and mgr.; F. P. Kaercher, secy.; W. A. Church, treas.; Reachwood, 60,000 tons, steam, breaker. R. C. Luthier, supt.		
Nanticoke	Luzerne	Susquehanna Coal Co., Irving Stern, mgr.; Susquehanna. Shafts and slopes, steam and horse, breaker, George Morgan, supt.		
Nesquehoning	Carbon	Lehigh Coal & Navigation Co., Philadelphia, Pa., 24 S. Third st., Joseph S. Harris, pres.; S. Shepherd, secy., and treas.; W. D. Zehner, mgr. and supt.; Cap. stk., \$14,750,000. Colliery No. 1, 26,500 tons, steam and horse, breaker and washer.		

COAL ANTHRACITE (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINTS		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWNS	COUNTY.	
Olyphant	Lackawanna	Delaware & Hudson Canal Co., Scranton, Pa., 2301 Providence pl. R. M. Olyphant, pres.; F. M. Olyphant, secy.; C. A. Walker, treas.; H. G. Young, mgr. Cap. stk. \$300,000. Eddy Creek, Grassy Island and Olyphant Nos. 2. Shafts, 200,000 tons; steam and horse; breaker. Andrew Nicol, supt.
"	"	Orlando S. Johnson, Scranton, Pa., P. O. Box 425. Cap. \$250,000. Green Ridge. Slope, 150,000 tons; steam; breaker. Wm. S. Boyd sr., supt.
"	"	Lackawanna Coal Co., Scranton, Pa., P. O. Box 425. John S. Law, pres.; E. B. Sturges, secy. and treas.; O. S. Johnson, gen. mgr. Cap. \$300,000. Lackawanna. Shaft, 350,000 tons; steam. Wm. Harper, supt.
"	"	Moosie Mountain Coal Co., Scranton, Pa. E. B. Leisenring, pres.; W. W. Watson, secy. and treas.; Charles P. Ford, mgr. and supt. Cap. stk. \$100,000. Moosie Mountain. Shaft, 100,000 tons; steam; breaker and washer.
Oneida	Schuylkill	Coxe Bros. & Co., Cross Creek. Slope, 100,000 tons; steam; breaker and washer. E. B. Coxe, supt.
Parsons	Luzerne	Delaware & Hudson Canal Co., Scranton, Pa., 2301 Providence pl. R. M. Olyphant, pres.; F. M. Olyphant, secy.; C. A. Walker, treas.; H. G. Young, mgr. Cap. stk. \$300,000. Laurel Run. Slope, 150,000 tons; steam and horse; breaker. Andrew Nicol, supt.
"	"	Lehigh Valley Coal Co., Philadelphia, Pa., 28 S. Third st. Elisha P. Wilbur, pres.; J. R. Fanshawe, secy.; Wm. C. Alderson, treas.; W. A. Lathrop, mgr. and supt. Cap. stk. \$500,000. Mineral Spring and Coal Brook. Slopes, 30,500 tons; steam; breaker.
Pockville	Lackawanna	Blue Ridge Coal Co., Scranton, Pa., 12 Library Bldg. James N. Rice, pres. and mgr.; H. C. Reynolds, secy.; N. E. Rice, treas. Cap. stk. \$100,000. Blue Ridge. Slope and shaft, 200,000 tons; breaker.
"	"	New York & Scranton Coal Co., Edward B. Sturges, pres.; John B. Kerr, v.-pres.; W. W. Paterson, secy., supt. and mgr. Cap. stk. \$300,000. Ontario and Sturges. Shafts, 100,000 tons; steam and electricity.
"	"	Rush Brook Coal Co., John S. Jenkins, pres. and mgr.; E. H. Coray jr., secy.; John F. Collier, treas. Cap. stk. \$100,000. Rush Brook. Shafts and tunnel, 100,000 tons; steam; breaker. Thomas Langman, supt.
"	"	Sterrick Creek Coal Co., Scranton, Pa., 118 Wyoming av. J. J. Albright, pres.; James Archibald jr., secy., mgr. and supt.; Wm. T. Smith, treas. Cap. stk. \$100,000. Sterrick Creek. Shafts and drift, 150,000 tons; steam; breaker.
Phoenix Park	Schuylkill	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 27 S. Fourth st. A. A. McLeod, pres. and mgr.; F. P. Kaechler, secy.; W. A. Church, treas. Phoenix Park No. 3. 42,000 tons; steam; breaker. R. C. Luther, supt.
Pine Grove	Schuylkill	John D. Filiz. Cap. \$12,000. Big Diamond. Open pit, 1,800 tons; horse. Samuel Gay, supt.
"	"	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 27 S. Fourth st. A. A. McLeod, pres.; Frank P. Kaechler, secy.; W. A. Church, treas.; C. E. Henderson, mgr. Lincoln. Slope, 400,000 tons; steam, breaker and washer. John Maguire, supt.
Pittston	Luzerne	Butler Mine Co., Ltd., Corning, N. Y., 203 Pine st. A. Boughen jr., pres.; S. B. Bennett, secy. and mgr.; O. W. Bump, treas. Cap. stk. \$500,000. Butler, Schooley and Fernwood. Shafts, 25,000 tons; steam; breaker. Richard Appleby, supt.
"	"	Clear Spring Coal Co., 203 Everet st. John L. Cook, pres., mgr. and supt.; W. H. Gerhart, secy.; A. Mel. Dermott, treas. Cap. stk. \$200,000. Clear Spring. Shaft, 50,000 tons; steam; breaker.
"	"	Lehigh Valley Coal Co., Philadelphia, Pa., 28 S. Third st. Elisha P. Wilbur, pres.; J. R. Fanshawe, secy.; Wm. C. Alderson, treas.; W. A. Lathrop, mgr. and supt. Cap. stk. \$500,000. Heidelberg. Shaft and slope No. 1, 60,000 tons; steam; breaker.
"	"	Newton Coal Mining Co., F. T. Patterson, pres.; E. L. Fuller, secy.; Wm. Hill, treas.; John A. Mears, mgr. Cap. stk. \$200,000. Seneca, Ravine and Twin. Shafts, 300,000 tons; steam; breaker. J. Michael Lamagham, supt.
Plainsville	Luzerne	Delaware & Hudson Canal Co., Scranton, Pa., 2301 Providence pl. R. M. Olyphant, pres.; F. M. Olyphant, secy.; C. A. Walker, treas.; H. G. Young, mgr. Cap. stk. \$300,000. Mill Creek and Delaware. Slope and shaft, 25,400 tons; steam and horse; breaker. Andrew Nicol, supt.
"	"	Lehigh Valley Coal Co., Philadelphia, Pa., 28 South Third st. Elisha P. Wilbur, pres.; J. R. Fanshawe, secy.; Wm. C. Alderson, treas.; W. A. Lathrop, mgr. and supt. Cap. stk. \$500,000. Enterprise, Prospect, Oakwood, Henry and Moxdale. Shafts and slope, 48,200 tons; steam; breaker.
Plymouth	Luzerne	Delaware & Hudson Canal Co., Scranton, Pa., 2301 Providence pl. R. M. Olyphant, pres.; F. M. Olyphant, secy.; C. A. Walker, treas.; H. G. Young, mgr. Cap. stk. \$300,000. Boston and Plymouth Nos. 2, 3, 4 and 5. Shafts, 67,000 tons; steam and horse; breakers. Andrew Nicol, supt.
"	"	Kingston Coal Co., Kingston, Pa. Daniel Edwards, pres. and mgr.; Elliott R. Morgan, secy. and treas.; Cap. stk. \$100,000. Gaylord. Slope, 40,000 tons; steam and compressed air; breaker and washer. George Pictou, supt.
"	"	Lehigh & Wilkes-Barre Coal Co., New York City, Central Bldg. J. R. Maxwell, pres.; W. F. Zell, secy. and treas.; Elmer H. Lawall, gen. supt.; Lance No. 11, Nottingham No. 15 and Reynolds No. 16. Shafts and slope, 1,000,000 tons; steam; breakers. M. R. Morgans, supt.
"	"	Parish Coal Co., 26 W. Main st. Chas. Parrish, pres.; Geo. P. Lindsay, secy.; H. H. Ashley, treas. and mgr. Cap. stk. \$100,000. Parrish. Slopes, 300,000 tons; steam; breaker. Thos. R. Evans, supt.
"	"	Plymouth Coal Co., Wilkes-Barre, Pa. Coal Exchange. Bodson. Shaft, 20,000 tons; steam and compressed air; breaker. James B. Davies, supt.
Pottsville	Schuylkill	Lehigh Valley Coal Co., Philadelphia, Pa., 28 S. Third st. Elisha P. Wilbur, pres.; J. R. Fanshawe, secy.; Wm. C. Alderson, treas.; W. A. Lathrop, mgr. and supt. York Farm.
Princeton	Lackawanna	John Jernyn, Scranton, Pa., 118 Wyoming av. W. M. Jernyn, mgr. Jernyn Nos. 3 and 4. Shaft and slope; steam; breakers. E. B. Jernyn, supt.
Rippondamock	Schuylkill	Lehigh Valley Coal Co., Philadelphia, Pa., 28 S. Third st. Elisha P. Wilbur, pres.; J. R. Fanshawe, secy.; Wm. C. Alderson, treas.; W. A. Lathrop, mgr. and supt. Cap. stk. \$500,000. Packer No. 5 Colliery. 10,000 tons; steam; breaker.

COAL, ANTHRACITE—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Raven Run.....Schuylkill Ry. 364.	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st., A. A. McLeod, pres., and mgr.; F. P. Kaechler, secy.; W. A. Church, treas.; Girard Manumoth. 112,000 tons, steam, breaker, John Verth, supt.
Rendham.....Lackawanna Ry., Minooka, 293, 213.	Jermyn Coal Co., Scranton, Pa., 119 Wyoming av., Cap. \$1,000,000. Jermyn Nos. 1 and 2. Shafts, 500,000 tons; steam, 2 breakers. Samuel Baker, supt.
Ridgewood.....Luzerne Ry., 563, 829.	Keystone Coal Co., Wilkes-Barre, Pa., 202 E. Market st., S. L. Brown, pres.; Chas. H. Gardner, secy., and treas.; Cap. \$tk. \$300,000. Reysston. Slope, 110,000 tons, steam, breaker. James H. Hughes, supt.
St. Clair.....Schuylkill Ry., 563 and 578.	Elm Creek Mining Co., Scranton, Pa., Commonwealth Bldg., Wm. H. Taylor, pres.; E. P. Kingsbury, secy. and treas.; Cap. \$tk. \$300,000. Shaft developing.
"....."	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st., A. A. McLeod, pres., and mgr.; F. P. Kaechler, secy.; W. A. Church, treas.; Pine Forest and Eagle. 14,000 tons, steam, breaker. R. C. Luthier, supt.
St. Nicholas.....Schuylkill Ry., 578.	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st., A. A. McLeod, pres., and mgr.; F. P. Kaechler, secy.; W. A. Church, treas.; Boston Run, Bear Run, St. Nicholas, Suckok and Maple Hill. 291,200 tons, steam, breakers. John Verth, supt.
Sandy Run.....Luzerne Ry., 118, 393.	N. S. Kemmerer & Co., Sandy Run. Slope, 100,000 tons, steam, breaker and washer. Walter Leisen- ring, supt.
Scranton.....Lackawanna Ry., 118, 399, 213, 300.	Clark Tunnel Coal Co., 219 W. Market st., Cap. \$tk. \$100,000. Clark. Tunnel, 5,000 tons, steam, breaker. James Flynn, supt.
"....."	Delaware & Hudson Canal Co., Scranton, Pa., 290 Providence pl., R. M. Olyphant, pres.; F. M. Olyphant, secy.; C. A. Walker, treas.; H. G. Young, mgr.; Cap. \$tk. \$1,000,000. Dickson, Leggett's Creek and Matvine Shafts. Van Storch. Shaft and slope, 88,800 tons, steam and horse, breaker. Andrew Nicol, supt.
"....."	Elliott, McHugh & Co., 323 Quincy av., Edward A. Sibley, treas.; James C. McHugh, mgr. and supt.; Sibley. Shaft, 100,000 tons, steam, breaker.
"....."	New York, Susquehanna & Western R. R. Co., New York City, 15 Cortlandt st., Simon Borg, pres.; J. P. Raftery, secy.; R. C. Shinnick, treas.; T. P. Moore, gen. agt.; 1,200,000 tons. Wm. J. Lewis, supt.
Shamokin Northumberland Ry., 369, 548, 578.	J. Langdon & Co., Elmira, N. Y., C. J. Langdon, pres.; W. L. Sampson, secy.; C. L. Stillman, treas.; C. M. Underhill, mgr.; Neilson. Shaft, 275,000 tons, steam, breaker, washer. H. S. Gay, supt.
"....."	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st., A. A. McLeod, pres., and mgr.; F. P. Kaechler, secy.; W. A. Church, treas.; Buck Ridge, Big Mountain, Peerless, Henry Clay, Sterling, Burnside and Bear Valley. 74,000 tons, steam, breakers and washer. John Verth, supt.
"....."	Union Coal Co., Erie, Pa., C. H. Strom, pres.; M. H. Taylor, secy.; T. M. Leitch, treas.; Cap. \$tk. \$200,000. Pomysylvania, "H. Ridge" and "H. Swamp. Slopes and tunnels, 75,000 tons, steam, breakers, Robert Foster, supt.
Shenandoah.....Schuylkill Ry., 369, 575, 578.	Cambria Coal Co., J. D. Jones, pres.; K. Porree, secy.; David R. James, treas.; J. C. McGinnis, mgr. and supt.; Cap. \$tk. \$250,000. Cambria. Shaft, 18,000 tons, steam, breaker.
"....."	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st., A. A. McLeod, pres., and mgr.; F. P. Kaechler, secy.; W. A. Church, treas.; Indian Run, Kohlmor, Shenandoah City, Lor- key Run and West Shenandoah. 1,045,124 tons, steam, breakers and washer. John Verth, supt.
Shickelmy.....Luzerne Ry., 399.	E. S. Stackhouse, Salem. Tunnels, steam, breaker, developing.
Silver Creek.....Schuylkill Ry., New Philadelphia 578.	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st., A. A. McLeod, pres., and mgr.; F. P. Kaechler, secy.; W. A. Church, treas.; Silver Creek. Shaft, steam. R. C. Luthier, supt.
Stockton.....Luzerne Ry., 393.	Coxe Bros. & Co., Drifton, Pa., Cross Creek. Slope, 100,000 tons, steam, breaker and washer. E. B. Coxe, supt.
"....."	Linderman & Skeet, South Bethlehem, Pa., Cap. \$1,000,000. East Sugar Loaf. Slope, 40,000 tons, steam and horse, breakers. Jas. J. Rodenick, supt.
Sugar Notch.....Luzerne Ry., 118, 393.	Lehigh & Wilkes-Barre Coal Co., New York City, Central Bldg.; J. R. Maxwell, pres.; W. F. Zell, secy., and treas.; Elmer H. Lavalley, gen. supt.; Sugar Notch, No. 9. Shaft, 18,000 tons, steam, breaker. M. R. Morgans, supt.
Taylorville.....Lackawanna P. O., Minooka Ry., 118, 299.	Greenwood Coal Co., Ltd., Scranton, Pa., P. O. Box 481. R. G. Brooks, pres.; J. H. Dale, secy. and treas.; Cap. \$tk. \$200,000. Greenwood. Shaft and drift, 102,000 tons, steam, breaker. W. G. Thomas, supt.
Taylorville.....Schuylkill Ry., and P. O. Fotts ville 578, 393, 369, 559.	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st., A. A. McLeod, pres., and mgr.; F. P. Kaechler, secy.; W. A. Church, treas.; Glenfowler. 75,000 tons, steam, breaker. R. C. Luthier, supt.
Thomaston.....Schuylkill Not a P. O. Ry., 57.	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st., A. A. McLeod, pres., and mgr.; F. P. Kaechler, secy.; W. A. Church, treas.; Thomaston. 15,000 tons, steam, breaker. R. C. Luthier, supt.
Throop.....Lackawanna Ry., 369.	Emmest Coal Co., C. M. Sanderson, pres.; J. R. Bellman, secy. and treas.; C. D. Sanderson, gen. supt.; Emmest. Shaft, 175,000 tons, steam, breaker. F. A. Barley, supt.
Tomblick.....Luzerne P. O., Sigwalt Ry., 293, 548.	Coxe Bros. & Co., Drifton, Pa., Cross Creek. Slopes, 100,000 tons, steam, breaker and washer. E. B. Coxe, supt.
Lower City.....Schuylkill Ry., 578.	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st., A. A. McLeod, pres., and mgr.; F. P. Kaechler, secy.; W. A. Church, treas.; Brookside. 40,000 tons, steam, breaker. R. C. Luthier, supt.
Fronton.....Schuylkill Ry., 578.	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st., A. A. McLeod, pres., and mgr.; F. P. Kaechler, secy.; W. A. Church, treas.; East Frank's. 4,000 tons, steam, breaker. R. C. Luthier, supt.
Freyston.....Northumberland Ry., 578.	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st., A. A. McLeod, pres., and mgr.; F. P. Kaechler, secy.; W. A. Church, treas.; North Frank and 14,000 tons, steam, breaker. John Verth, supt.

COAL—ANTHRACITE (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWN	AND	COUNTY.	
Warhane Ry. 118.		Luzerne	Lehigh & Wilkes-Barre Coal Co., New York City, Central Bldg. J. R. Maxwell, pres.; W. T. Zell, secy., and treas.; Elmer H. Lawall, gen. supt. Warramine No. 18. Slopes, 163,400 tons; steam; breaker. M. R. Morgans, supt.
Wilburton Ry. 118, 202, 213, 303, 363.		Columbia	Mt. Valley Coal Co., Mauch Chunk, Pa. E. B. Leisenring, pres.; Geo. H. Myers, secy. and treas.; Mark G. Clements, mgr. and supt. Cap. stk. \$300,000. Mt. Valley. Slopes, 230,000 tons; steam; breaker.
Wilkes-Barre Ry. 118, 202, 213, 303, 363.		Luzerne	Delaware & Hudson Canal Co., Scranton, Pa., 230 Providence pl. R. M. Olyphant, pres.; F. M. Olyphant, secy.; C. A. Walker, treas.; H. G. Young, mgr. Cap. stk. \$800,000. Baltimore. Slopes, 2,000 tons; steam; tunnel and shaft. Nos. 2, 3 and Conyngham. 263,000 tons; steam; horse; breakers. Andrew Nicol, supt.
"		"	Hanover Coal Co., Geo. H. Parrish, pres.; M. L. Dreishbach, secy. and treas.; J. Roberts jr., mgr. Cap. stk. \$100,000. Matlet. Shaft and tunnel, 150,000 tons; steam; breaker. Daniel Leisels, supt.
"		"	Hilman Vein Coal Co., Canal st. H. H. Ashley, pres.; S. J. Tonkin, secy. and mgr.; Chas. P. Hunt, treas. Cap. stk. \$200,000. Hilman Vein. Shaft and slope, 150,000 tons; steam; breaker. S. J. Tonkin, supt.
"		"	Lehigh Valley Coal Co., Philadelphia, Pa., 228 S. Third st. Elisha P. Wilbur, pres.; J. R. Fanshawe, secy.; Wm. C. Alderson, treas.; W. A. Lathrop, mgr. and supt. Cap. stk. \$550,000. Franklin. Slopes and Dorrance, 181,000 tons; steam; breaker.
"		"	Lehigh & Wilkes-Barre Coal Co., New York City, Central Bldg. J. R. Maxwell, pres.; W. T. Zell, secy., and treas.; Elmer H. Lawall, gen. supt. Stanton No. 7. South Wilkes-Barre No. 5. Empire No. 4 and Hollenbach No. 2. Mines, shafts and slope, 463,250 tons; steam; breakers. M. R. Morgans, supt.
"		"	Wyoming Valley Coal Co., Coal Exchange Bldg. Israel W. Morris, pres.; J. M. Crane, secy. and treas. Cap. stk. \$1,300,000. Harvey E. Nos. 1 and 2. Shaft, 225,000 tons; steam; breaker. Alfred Smith, supt.
Winton Ry. 202, 305.		Lackawanna	Dolph Coal Co., Ltd., Scranton, Pa., P. O. Box 427. W. G. Payne, pres.; E. S. Dolph, secy.; I. F. Hand, treas.; W. G. Robertson, mgr. and supt. Cap. stk. \$100,000. Dolph. Tunnel, 10,000 tons; steam; breaker.
"		"	Mt. Jessup Coal Co., Ltd., Scranton, Pa., Commonwealth Bldg. E. B. Leisenring, pres.; Chas. P. Ford, secy.; W. W. Watson, treas.; Eli P. Conner, mgr. and supt. Cap. stk. \$100,000. Mt. Jessup. Slopes, 80,000 tons; steam; breaker and washer.
"		"	Mt. Vernon Coal Co., Scranton, Pa., 2023 N. Main av. G. M. Lewis, pres.; W. H. Winton, secy.; B. M. Winton, treas. and mgr. Cap. stk. \$100,000. Mt. Vernon. Tunnel, 100,000 tons; steam; breaker. R. R. Griffith, supt.
"		"	Sterrick Creek Coal Co., Scranton, Pa., Third National Bank Bldg. Jos. A. Albright, pres.; James Archbald jr., secy., mgr. and supt. Wm. T. Smith, treas. Cap. stk. \$100,000. Sterrick Creek. Shaft and drift, 300,000 tons; steam; breaker.
"		"	Winton Coal Co., Ltd., Scranton, Pa., 2023 North Main av. W. W. Winton, pres.; A. H. Winton, secy.; B. M. Winton, treas. and mgr. Cap. stk. \$20,000. S. V. White. Tunnel, 140,000 tons; steam; breaker. A. S. Hartman, supt.
Wyoming Ry. 303, 309.		Luzerne	Lehigh Valley Coal Co., Philadelphia, Pa., 228 S. Third st. Elisha P. Wilbur, pres.; J. R. Fanshawe, secy.; Wm. C. Alderson, treas.; W. A. Lathrop, mgr. and supt. Cap. stk. \$550,000. Wyoming. Shaft, 14,000 tons; steam; breaker.
"		"	Mount Lookout Coal Co., Scranton, Pa. T. H. Watkins, pres.; W. G. Parke, secy.; C. D. Simpson, treas. Cap. stk. \$200,000. Mount Lookout. Shaft, 337,500 tons; steam; breaker. James L. Crawford, supt.
Yatesville (Not a P. O. Ry., Beach- wood Station 578.)		Luzerne	Crescent Coal Co., Wilkes-Barre, Pa., Coal Exchange, Hollenbach Bldg. Fred J. Beach, pres.; J. R. Woodward, secy.; J. M. Schuppert, treas.; David Bell, mgr. Cap. stk. \$10,000. Crescent Mine No. 1. Tunnels, 65,000 tons; steam; breaker. David Bell, supt.
Yatesville (P. O. Pottsville) Ry. 303.		Schuykill	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st. A. A. McLeod, pres. and mgr.; F. P. Knickerbocker, secy.; W. A. Church, treas. Knickerbocker. 204,800 tons; steam; breaker. John Keith, supt.

COAL—BITUMINOUS

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TOWN	AND	COUNTY.	
Adrian Ry. East Brady 11.		Adams	Bell, Lewis & Yates Coal Mining Co., Buffalo, N. Y. Geo. H. Lewis, pres.; Chas. Clifton, secy. and treas.; S. B. Elliott, mgr. Cap. stk. \$1,000,000. Adrian. Slopes, 375,000 tons; steam; 280 coke ovens. J. S. Fleming, supt.
Amadale Ry. 588.		Butler	Hamilton Canal Coal Co., Boyer's, Pa. Harry Hamilton, treas.; W. K. Hamilton, mgr. and supt. Cap. stk. \$25,000. Boyer. Tunnel.
Antrim Ry. 277.		Truett	Fall Brook Coal Co., Corning, N. Y. Geo. J. Magee, pres.; John Lang, secy. and treas.; Anton Harilt, mgr. Cap. stk. \$100,000. Antrim. Drifts, 240,000 tons; horse and steam; washer, 157 coke ovens, 35,000 tons. Jas. Pollock, supt.
Bakersville Ry. Somerset 42.		Somerset	T. J. Baker (local). Baker. Open pit, 50 tons; hand. Solomon Ash, supt.
"		"	Robert T. Hall (local). Open pit, 2,800 tons; hand.
Baldwin (P. O. West Elizabeth) Ry. 563.		Allegheny	Joseph Walton & Co., Pittsburg, Pa., 134 Water st. T. N. Einton, mgr. Cap. \$1,000,000. First Pool. Drift, 10,000 tons; steam; horse and hand. Morris Kapt, supt.
Banksville Ry. Pittsburg 11, 12, 153, 363, 384, 385, 578, 592.		Allegheny	Roger Watley, Pittsburg, Pa., Carson st. Chas. W. Watley, secy. and treas.; Beecher Watley, mgr. Cap. stk. \$800,000. Enterprise. Slopes, 22,000 tons; steam; washer, John Johnson, supt.

COAL—BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Du Bois	Clearfield	Belk, Lewis & Yates Coal Mining Co., Buffalo, N. Y., Geo. H. Lewis, pres.; Chas. Clifton, secy. and treas., S. B. Elliott, mgr. Cap. stk. \$1,000,000. Rochester, Slope, 500,000 tons; steam, John Reed, supt.		
Dudley	Huntingdon	E. F. Gould, Cap. \$5,000. Huntingdon. Open pit, 25,000 tons; horse and hand.		
"	"	W. H. Sweet, Cap. \$10,000. Occams, Nos. 1 and 2. Tunnel, 50,000 tons; horse.		
Dunbar	Fayette	Reid Bros., Uniondale, Slope, 30,000 tons; steam; 74 coke ovens, 27,000 tons. Jas. L. Allen, supt.		
Dunlo	Cambria	Yellow Run Coal Co., Greensburg, Pa., J. Schall Wilhelm, pres.; W. A. Huff, secy. and treas., D. W. Luke, mgr. and supt. Cap. stk. \$75,000. Yellow Run. Shaft; steam (developing).		
East Brady	Clarion	Brady's Bend Mining Co., C. F. Hartwell, mgr. Brady's Bend. Tunnel, 110,000 tons; horse.		
Edgewood	Allegheny	Corey Coal Co., Pittsburg, Pa., Fifth av., J. B. Corey, pres.; W. L. Dixon, mgr. and supt. Cap. stk. \$50,000. Duquesne. Tunnel, 150,000 tons; steam.		
Eleanor	Jefferson	Belk, Lewis & Yates Coal Mining Co., Buffalo, N. Y., Geo. H. Lewis, pres.; Chas. Clifton, secy. and treas., S. B. Elliott, mgr. Cap. stk. \$1,000,000. Eleanor, Drift, 200,000 tons; 100 coke ovens. Samuel Rine, supt.		
Elk Lick	Somerset	Hamilton & Cochran, Baltimore, Md., 12 South st. Hamilton. Tunnel, 30,000 tons; horse. James Cochran, supt.		
Elm Grove	Fayette	W. J. Rainey, Cleveland, Ohio, Mercantile Bank Bldg. Elm Grove. Slope, 120,000 tons; steam; 100 coke ovens, 72,000 tons. T. J. Mitchell, supt.		
Emblem	Allegheny	Oseroda Coal Co., James W. Shields, propr., Pittsburg, Pa., P. O. Box 502. Cap. stk. \$25,000. Oseroda. Open pit, 100,000 tons; steam.		
Enrichance	Fayette	Fairchance Furnace Co., Geo. R. Sheldon, pres.; W. H. De Forest jr., secy. and treas., Robt. L. Martin, mgr. Cap. stk. \$250,000. Fairchance. Slope, 92,000 tons; horse; 133 coke ovens, 75,000 tons. John W. Stirling, supt.		
Fall Brook	Tioga	Fall Brook Coal Co., Corning, N. Y., Geo. J. Magee, pres.; John Lang, secy. and treas.; Anton Harlt, mgr. Cap. stk. \$100,000. Fall Brook. Drifts, 85,000 tons; horse and steam, washer. R. Russell, supt.		
Falls Creek	Clearfield	Reynoldsville Coal Co., Henry K. Week, pres.; Frank Morrison, secy., mgr. and supt., J. H. Corbett, treas. Cap. stk. \$16,000. Sherwood. Drift, horse (developing).		
Federal	Allegheny	Federal Coal Co., Wilfrid Stewart, mgr. and supt. Federal. Tunnel, 100,000 tons; horse.		
Fort Hill	Fayette	W. J. Rainey, Cleveland, Ohio, Mercantile Bank Bldg. Fort Hill. Slope, 200,000 tons; steam; 190 coke ovens, 120,000 tons. T. J. Mitchell, supt.		
Fruzaloty	Cambria	Grosson & Clearfield Coal & Coke Co., New York City, 1 Broadway. Hon. John Dean, pres.; B. O. Hagan, secy., R. J. Cross, treas., P. H. Watts, mgr. Ansley and Fruzaloty Nos. 1, 2, 3, 4, 5. Tunnels, 600,000 tons; steam and horse, breaker, 125 coke ovens, 60,000 tons.		
Gallitzin	Cambria	Taylor & McCoy, Cap. \$250,000. Shaft, 20,000 tons; steam and horse; 240 coke ovens, 135,000 tons. John F. McCoy, supt.		
Glen Campbell	Indiana	Cush Creek Coal & Coke Co., Altoona, Pa., cor. Twenty-fourth st. and Oak av., H. E. Clark, pres.; L. K. Evans, secy., treas. and mgr. Cap. stk. \$2,000. Cush Creek Nos. 1 and 2. Tunnel, horse.		
Glen Richey	Clearfield	Bloomington Mining Co., Philadelphia, Pa., 411 Walnut st., F. I. Gowen, pres.; W. R. Todd, secy.; Rembrandt Peale, treas. and mgr. Cap. stk. \$100,000. Glen Richey. Drift, 20,000 tons; horse. John Dinsmore, supt.		
Glenshaw	Allegheny	Robbins Coal & Coke Co., Pittsburg, Pa., 705 Penn av., F. L. Robbins, gen. mgr. Glenshaw. Slope, 100,000 tons; steam. G. W. Schudelbert, supt.		
Gomeral	Butler	Gomeral Coal Co., Ltd., Youngstown, Ohio. H. O. Bonnell, pres. and treas., Harry Bonnell, secy., Gomeral. Open pit, 52,000 tons; horse. Wm. Ferguson, supt.		
Gosholt	Armstrong	Turner Coal & Mining Co., J. L. Turner, mgr. Turner. Tunnel, 20,000 tons; horse. Richard Lewis, supt.		
Graceton	Indiana	McCreary Coal Co., Harry McCreary, treas. and mgr. Cap. \$20,000. Graceton Nos. 1 and 2. Drift, 700 tons; steam and horse, 181 coke ovens, 120,000 tons.		
Greensburg	Westmoreland	Alexandria Coal Co., Philadelphia, Pa., Balhit Bldg., Geo. F. Huff, pres.; Fred McOwen, secy. and treas., Thos. Donohoe, mgr. and supt. Cap. stk. \$500,000. Alexandria. Tunnel, 267,000 tons; steam, 281 coke ovens, 150,000 tons.		
"	"	Carbon Coal Co., Philadelphia, Pa., 333 Walnut st., David E. Williams, pres.; W. A. Smith, secy.; James C. Clarke, treas. Cap. stk. \$300,000. Carbon. Slope, 160,000 tons; steam, 48 coke ovens, 20,000 tons. Frank E. Knibb, supt.		
"	"	Jamison Coal Co., R. S. Jamison, pres.; John M. Jamison, secy. and treas., Thos. S. Jamison, mgr. and supt. Cap. stk. \$150,000. Jamison. Slope, steam, 100 coke ovens, 15,000 tons (developing).		
"	"	Madison Gas Coal Co., G. Binton Roberts, pres.; W. A. Smith, secy.; W. A. Huff, treas. Cap. stk. \$100,000. Madison. Tunnel, 28,000 tons; horse. Thos. Donohoe jr., supt.		
Grindstone	Fayette	Redstone Oil, Coal & Coke Co., Philadelphia, Pa., 291 Walnut pl., J. B. Ridgway, pres.; J. I. Bishop, v. pres.; Geo. W. Belmont, treas., Redstone. Shaft, 180,000 tons; steam and electricity, 31 coke ovens, 15,500 tons. J. F. Cook, supt.		
Grove City	Mercer	Filer, Saffill & Co., Sharon, Pa., Enoch Filer, mgr. Cap. \$50,000. Diamond, No. 1 and No. 2. Shafts, 140,000 tons; steam. Frank P. Filer, supt.		
"	"	Westerman, Filer & Co., Sharon, Pa., Enoch Filer, mgr. Cap. \$60,000. Chestnut Ridge. Shaft, 70,000 tons; steam and horse. Enoch D. Filer, supt.		
Gumery	Tioga	Gumery Coal & Coke Co., Addison, N. Y., T. C. Platt, pres.; Frank M. Baker, mgr. Drifts Nos. 2 and 3. Tunnel, 52,000 tons; horse. P. Smith, supt.		

COAL—BITUMINOUS (CONTINUED)

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TOWNS	AND	COUNTY.		
Hamilton Ry. and P. O. Morris Rm 566.	Tioga	Morris Run Coal Mining Co., Corning, N. Y., Geo. J. Magee, pres.; W. S. Neuring, secy. and supt., Daniel Becht, treas. Cap. stk. \$50,000. Morris Run. Slope, 4,000 tons, horse and steam.		
Hastings Ry. 583.	Cambria	Dunwiddie & Campbell, Cap. \$12,000. Oak Ridge. Slope, 2,800 tons, horse. Jas. Campbell, supt.		
Hermitage Ry. 668.	Merced	Dunham & Evans (locally). Cap. \$500. Hermitage. Shaft, 1,000 tons, horse.		
"	"	N. L. Wescen (locally). Wescen. Slope, 1,000 tons, horse.		
Hickman Ry. 584.	Allegheny	Beechmont Coal Co. Cap. \$10,000. Beechmont. Slope, 6,000 tons, steam and horse. J. C. McMichael, supt.		
Hooversville Ry. 42.	Somerset	Wm. Hoover & Bros. (locally). Valley Mines.		
"	"	D. D. Jones. Ocean. Slope, 50 tons, horse.		
"	"	Joseph Meyers. (locally). Cap. \$50. Tunnel, 60 tons, hand.		
"	"	Frank Rodgers. (locally). Open pit, hand.		
Hopewell Ry. 317.	Bedford	Huntingdon & Broad Top Mountain Railroad & Coal Co., Philadelphia, Pa. Geo. F. Bod. Fourth and Walnut sts. Spencer M. Lantry, pres.; F. P. Doughdon, secy. and treas.; Geo. F. Bod, 2nd. mgt. Cap. stk. \$4,511,750. Cumberland and Mount Equity. Tunnels, 2,000 tons, horse. John Langdon, supt.		
"	"	Lambert Coal Mining Co., Philadelphia, Pa. Jas. S. Fourth st. H. W. Lambert, pres.; Geo. L. Scott, secy. and treas.; John Langdon, mgt. Cap. stk. \$12,000. Cries mt. and Cheekington. Slope and ft. ft. 12,000 tons, steam and horse. Lee Ott, supt.		
Houtchale Ry. 563.	Chertfield	H. K. Myers, Tyrone, Pa. Cap. \$15,000. Belvern, Nos. 1 and 3. Drift, 10,000 tons, steam. Robert Witchell, supt.		
"	"	Sterling Coal Co., Philadelphia, Pa. 19 Walnut st. D. H. Hastings, pres.; L. C. Patterson, secy.; W. H. Metzger, treas.; Edward McHugh, mgt. Cap. stk. \$2,000. Sterling Mines. 10. Drifts and slopes, 10,000 tons, steam and horse. Thos. J. McHugh and J. L. Sprangler, supts.		
Imperial Ry. 431.	Allegheny	Imperial Coal Co., Pittsburgh, Pa. 95 Fifth av. L. A. Andrews, pres.; W. H. Hosmer, secy. and treas.; Wm. Ridd, mgt. and supt. Tower Hill, Monroeville and Cliff. Drift, 20,000 tons, steam. 102 coke ovens.		
Irvine Ry. 563, 513.	Westmoreland	Penn. Gas Coal Co., Philadelphia, Pa. 20 S. Third st. L. A. Denzoe, pres.; A. K. Gregory, secy. and treas.; John F. Wolf, mgt. and supt. Coal Run, Nos. 1, 2 and 4. Shafts, 10,000 tons, steam and horse, 60 coke ovens.		
Jacob's Rock Ry. 42, 391.	Westmoreland	Furka Coal Co., Pittsburg, Pa. 84 Fourth av. Wm. H. Graham, pres.; W. A. Dunker, secy. and treas.; Wm. McQuinn, mgt. and supt. Cap. stk. \$50,000. Furka. Tunnel, 10,000 tons, steam and horse.		
Johnstown Ry. 42, 563.	Cambria	William Barnett (locally). 12 1/2 ft. ward. Crawford. Tunnel, 4,000 tons, hand.		
"	"	A. J. Haws & Son. (locally). Cap. \$10,000. Shaft, 25,000 tons, steam.		
"	"	W. J. Williams. (locally). Water st. Cap. \$800. Williams. Open pit, 450 tons, horse. John Rittallack, supt.		
Kearney Ry. 317.	Bedford	Joseph L. Flinnapp, Philadelphia, Pa. 115 S. Fourth st. Kearney. Slopes and tunnels, 110 coke ovens. Thos. A. Jones, supt.		
Lafayette Ry. 380, 563.	Westmoreland	Derry Coal & Coke Co., M. Saxman (locally), pres.; D. Watts, secy. and treas.; L. Saxman, mgt. and supt. Cap. stk. \$10,000. Derry. Shaft, 18,800 tons, steam. 187 coke ovens, 108,000 tons.		
"	"	Lafayette Coal Co., Altoona, Pa. J. G. Cassatt, pres.; John Lloyd, secy. and treas. Slope, 18,000 tons, steam. 100 coke ovens. D. W. Jones, supt.		
"	"	M. Saxman (locally) & Co. Cap. \$15,000. Saxman. Shaft, 17,200 tons, steam. 6 coke ovens, 2,000 tons. L. Kernan, supt.		
Lewistown Ry. 31.	Clinton	Keystone Coal Mining Co., East Brady, Pa. Geo. F. Henry, pres.; Geo. and supt. John Henry, mgt. Cap. stk. \$20,000. Keystone. Open pit, 5,000 tons, hand.		
Ligonier Ry. 306.	Westmoreland	Michael Keller. (locally). Keller. Open pit, 600 tons, hand.		
"	"	W. H. C. Knox. (locally). Knox. Open pit, 7,000 tons, hand.		
Lilly Ry. 563.	Cambria	L. W. Mentzer, Hollidaysburg, Pa. Bens Creek Plant. Drift, 500 tons, horse. John A. Lepp, supt.		
"	"	W. H. Pippet & Co., Philadelphia, Pa. 41 Walnut st. Summit, Nos. 1, 2 and 3. Tunnel, 20,000 tons, steam and Thos. J. Langley, supt.		
Lintonburg Ry. 42, 563.	Somerset	Lintonburg & Manufacturing Co., Somerset, Pa. S. Union Key. 100 ft. mgt. and supt. Joseph Tate, secy. and treas. Cap. stk. \$30,000. Krebs. Tunnel.		
"	"	Jesse Linton. (locally).		
Loudville Ry. 563.	Cambria	Cambria Fire Brick Co., Lock Haven, Pa. N. W. Froese, pres.; R. L. Beyer, secy. R. W. Froese, treas.; H. G. Hard, mgt. Cap. stk. \$8,000. Open pit, horse and hand, developing.		
Lobbs Run Ry. and P. O. West Elizabeth 563.	Allegheny	Joseph Walton & Co., Pittsburg, Pa. 164 Water st. J. N. Bouten, mgt. Cap. stk. \$12,000. L. P. Co. Drift, 5,000 tons, steam, horse and hand. John W. Peto, supt.		
Long Valley Ry. Foot of Plume 48.	Bedford	Long Valley Coal Co., Towanda, Pa. J. Raymond Chisholm, pres.; F. B. Akeley, secy.; F. O. MacFar- lane, treas. and mgt. Cap. stk. \$125,000. Long Valley. 90 ft. 65,000 tons, horse. W. R. Jones, supt.		
Loyalhanna Ry. 563.	Westmoreland	Loyal Hanna Coal & Coke Co., Philadelphia, Pa. 115 S. Fourth st. John P. Craig, pres. and treas.; C. C. Watt, secy. and gen. mgt. Cap. stk. \$50,000. Loyal Hanna and Fairport. Shafts, horse, steam and electricity, coal washer, 250 coke ovens. J. C. Menclini, supt.		
McDonald Ry. 584.	Washington	Patterson & Sifers. Cap. \$7,000. Brim Hill. Tunnel, 10,000 tons, steam. J. D. Sifers, supt.		

COAL BITUMINOUS (CONTINUED)

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TOWN	AND	COUNTY.		
McDonald	Washington		Pittsburg Consolidated Coal Co., Pittsburg, Pa., 708 Penn. av., F. L. Robbins, gen. mgr., Jumbo, No. 1.	
"	"		Slope, 200,000 tons; steam; 16 coke ovens. G. W. Schluederberg, supt.	
McGovern	Washington		J. H. Sauters, Cap. \$75,000. Nickel Plate. Tunnel, 80,000 tons; steam.	
Ry., Allison	784.		Cook & Sons, Cap. \$15,000. Allison. Drift, 45,000 tons; horse. R. M. Cook, supt.	
Maden	A Jefferson		Mechanum Vein Coal Mining Co., Philadelphia, Pa., Fourth st., Bulfinch Bldg., J. Chester Wilson, pres.;	
Ry., 563.			R. A. Zentmyer, secy. and treas.; P. B. Zentmyer, mgr. and supt. Cap. stk. \$50,000. Chester Nos. 1 and 2. Open pit, 100,000 tons; horse.	
"	"		Vulcan Coal & Coke Co., Philadelphia, Pa., 228 S. Fourth st., Wm. H. Wigton, pres. and mgr.; F. H. Wigton, secy. and treas. Cap. stk. \$50,000. Vulcan Nos. 1 and 2. Tunnel, 300,000 tons; steam. Chas. E. Sharpless, supt.	
Madison	Westmoreland		Arona Gas Coal Co., Philadelphia, Pa., 333 Walnut st., G. Brinton Roberts, pres.; W. A. Hull, secy. and	
Ry., 763.			treas.; Thomas Donohoe, mgr. and supt. Cap. stk. \$160,000. Arona. Open pit, horse (developing).	
Madison	Armstrong		River View Coal & Mining Co., Buffalo, N. Y., 22 W. Swan st., John Peterson, pres.; L. V. Biggs, secy.;	
(P. O. Cosmopolis) Ry.,			James S. Moore, mgr. Cap. stk. \$75,000. Drift, 100,000 tons; 250 V. V.	
Red Bank 11.				
Marion Centre	Indiana		John Vanleer (chgo.). Cap. \$5,000. Vanleer. Open pit, 12 tons; hand.	
Ry., Indiana 563.				
Meyersdale	Somerset		Casselman Coal Co., Wm. G. Hocking, pres. and gen. mgr. Cap. stk. \$30,000. Casselman. Slope, 75,000	
Ry., 42.			tons; steam.	
"	"		Hocking Coal Co., Baltimore, Md., Lodenhall st. Open pit, 45,000 tons.	
"	"		Benjamin Thomas, Cap. \$5,000. Thomas. Tunnel, 17,000 tons; horse.	
Midway	Washington		Pittsburg Consolidated Coal Co., Pittsburg, Pa., 708 Penn. av., F. L. Robbins, gen. mgr., Jumbo, No. 2.	
Ry., 784.			Slope, 150,000 tons; steam. G. W. Schluederberg, supt.	
Milesville	Allegheny		Robert Jenkins, Pittsburg, Pa., 120 Water st. Cap. \$50,000. Milesville. Open pit, horse and steam.	
(P. O. Sunny Side) Ry.,			435.	
Mineral Point	Cambria		E. Reighorn & Page (chgo.). Cap. \$3,000. Cambria. Slope, 18,000 tons; horse. E. Reighorn, supt.	
Ry., 563.				
Mononahela City,	Washington		W. H. Brown's Sons, Pittsburg, Pa., 113 Water st., Black Diamond. Drift, 60,000 tons; steam. James	
Ry., 126, 366.			Lorette, supt.	
Morrisdale	Monmouth		R. B. Wigton & Sons, Philadelphia, Pa., 228 S. Fourth st., Morrisdale Nos. 1, 2, 3 and 4. Troy, Rothrock,	
Ry., Morrisdale 72.			Schoonover and Omerod. Shaft and drifts, 750,000 tons; steam and compressed air; 124 coke ovens;	
			62,000 tons. Chas. E. Sharpless, supt.	
Mt. Bradbock	Fayette		R. Hoeselt & Co., Cap. \$45,000. Mt. Bradbock. Slope, 5,000 tons; steam; 170 coke ovens, 54,000 tons.	
Ry., 42, 563.			Filmer Hoeselt, supt.	
Mt Pleasant	Westmoreland		South-West Connellsville Coke Co., Pittsburg, Pa., 501 Bank of America Bldg., H. C. Frick, pres.; F. W.	
Ry., 42, 563.			Haskell, secy. and treas.; Morris Ramsay, gen. mgr. and supt. Cap. stk. \$4,000,000. Nos. 1, 2, 3 and 4. 1,200,000 tons; steam, water and electricity. 1,262 coke ovens, 725,000 tons.	
Moyer	Fayette		W. J. Ramey, Cleveland, Ohio, Mercantile Bank Bldg., Grace. Slope, 450,000 tons; steam. 110 coke	
Ry., 563.			ovens, 270,000 tons. Thos. Johns, supt.	
Munhall	Allegheny		Munhall Bros., Pittsburg, Pa., 400 Smithfield st., Cap. \$175,000. Bellwood. Tunnel, 65,000 tons; steam and	
Ry., 563.			horse. Wm. McMasters, supt.	
Munson Station	Chesterfield		R. C. Fishburn, Cap. \$15,000. Kyler. Tunnel, 20,000 tons; horse, 50 coke ovens, 25,000 tons.	
Ry., Munson 52.				
"	"		A. B. & G. W. Lueder, Cap. \$19,000. Lueder. Slope, 30,000 tons; steam and horse. Frank O'Rourke, supt.	
Myer	Cambria		Somman Coal Mining Co., Philadelphia, Pa., 206 Bulfinch Bldg., John Pitcairn, pres.; C. C. Watt, v. pres.;	
Ry., Somman 563.			P. S. Shoemaker, secy.; L. V. Biggs, treas.; P. A. Hughes, mgr. Cap. stk. \$50,000. Somman. Shaft,	
			150,000 tons; steam and steam. Joseph Patterson, supt.	
Neshannock	Mercer		Pierce Coal Co., Ltd., Sharpless, Pa., Frank Pierce, pres.; James Pierce, mgr. Lackawanna No. 2.	
Ry., 665.			Shaft, 15,000 tons; steam. Arden McIntyre, supt.	
New Castle	Lawrence		Thompson Run Coal Co., M. S. Marquis, pres.; L. Ramey, treas. Cap. stk. \$165,000. Thompson Run.	
Ry., 251, 363, 501, 592, 585.			Tunnel (developing).	
New Geneva	Fayette		R. T. Williams (chgo.). Williams. 1,200 tons.	
Ry., 533.				
Noblestown	Allegheny		National Coal Co., Ltd., Pittsburg, Pa., 35 Fifth av., Frank Armstrong, pres.; L. M. Jenkins, secy. and	
Ry., 584.			mgr.; J. A. McCreedy, treas. Cap. stk. \$51,000. National. Tunnel, 50,000 tons; steam and horse.	
			John Brown, supt.	
O. O. O.	Venango		Hartwell Coal Co., C. F. Hartwell, pres. Tunnel (developing).	
Ry., 11, 383, 503, 805.				
Oscoda	Allegheny		James W. Shields, Pittsburg, Pa., P. O. Box 502. Cap. \$25,000. Oscoda. Open pit, 100,000 tons; steam.	
(P. O. Findlay) Ry., 42.				
Oscoda Mills	Chesterfield		Ghem Coal Co., Ghem. Drift, 40,000 tons; horse. Geo. M. H. Good, supt.	
Ry., Oscoda 56.				
"	"		H. L. Wright & Co., Philadelphia, Pa., 28 N. Third st., Cap. \$20,000. Logan, Bessmer, Pioneer and Fair-	
			mount. Open pits, 200,000 tons; horse. J. S. Catherine, supt.	
Pennsylv	Fayette		Pennsylv Coal Co., Ltd. & B. T. Schenck, mgrs. Cap. stk. \$100,000. Pennsylv. Open pit and slope,	
Ry., 665.			65,000 tons; steam, 92 coke ovens, 47,000 tons. Jacob Byrd, supt.	
Perry	Fayette		Perry Mining Co., Uniontown, Pa., Geo. C. Marshall, pres. and treas.; A. W. Bliss, secy. Cap. stk. \$60,	
(P. O. Uniontown) Ry.,			400. Perry. Shaft, 65,000 tons; steam, 62 coke ovens, 25,000 tons. Louis de Sautels, supt.	
12.				

COAL—BITUMINOUS—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	COUNTY.		
Shrewsbury	Washington	John M. Risher, Pittsburg, Pa., 8 Wood st., Cap. \$275,000. Banner, Cliff and Coal Bluff. Open pit, 400,000 tons; steam. Joseph Griffiths, supt.	
Smithton	Westmoreland	Waverly Coal & Coke Co., Pittsburg, Pa., 17 Coal Exchange. J. A. Courtney, pres., and secy.; R. B. Mellon, treas.; David Orr, mgr. and supt. Cap. stk. \$500,000. Waverly. Shaft and open pit, 200,000 tons; steam; washer, 117 coke ovens, 50,000 tons.	
Snow Shoe	Centre	Lehigh Valley Coal Co., Philadelphia, Pa., 238 S. Third st., Elshu P. Wilbur, pres.; J. R. Farnshaw, secy.; Wm. C. Alderson, treas.; W. A. Lattrop, mgr. Cap. stk. \$500,000. Lucas Hill and Sugar Camp Nos. 1, 2 and 3. 197,000 tons; steam and horse. James F. Marsteller, supt.	
South Fork	Cambria	Amora Coal Co., Amora. Drift, 4,000 tons; horse. D. W. Luke, supt.	
"	"	Angle Coal Co., Greensburg, Pa., R. Gutter, pres.; W. A. Huff, secy.; Geo. F. Hull, treas.; J. P. Wilson, mgr. and supt. Cap. stk. \$25,000. Arzyle. Open pit, 15,000 tons; horse.	
"	"	Enoch Coal Co., Ltd., Altoona, Pa., 312 Fourth st., W. S. Butler, pres.; J. H. Dietrick, secy., supt. and mgr. Cap. stk. \$100,000. Enoch. Open pit, 50,000 tons; horse.	
Southwest	Westmoreland	The Hecla Coke Co., Ltd., Pittsburg, Pa., 421 Wood st., Wm. Thaw jr., pres.; T. C. Darsie, secy.; Benjamin Thaw, treas.; Jas. Darsie, gen. mgr. Cap. stk. \$300,000. Hecla No. 1. Shaft, 25,000 tons; steam and horse; 272 coke ovens, 15,000 tons. Thomas Laird, supt.	
Spores	Washington	Blyth Coal Co., Pittsburg, Pa., 8 Wood st., Geo. E. Blyth, pres.; John Musgrave, secy. and treas. Cap. stk. \$100,000. Blyth. Drift, 100,000 tons; horse. Thos. Cowell, supt.	
Stockdale	Washington	Stockdale Coal Co., Pittsburg, Pa., Sixth av. and Smithfield st. Acme. Open pit, 100,000 tons; horse. A. S. Graziell, supt.	
Stoneboro	Merced	Carver Coal Co., Sharon, Pa., Enoch Eiler, pres.; H. J. Eiler, secy. Cap. \$50,000. Carver. Shaft, 70,000 tons; steam. E. F. Eiler, supt.	
Tranger	Westmoreland	The Hecla Coke Co., Ltd., Pittsburg, Pa., 421 Wood st., Wm. Thaw jr., pres.; T. C. Darsie, secy.; Benj. Thaw, treas.; James Darsie, gen. mgr. Cap. stk. \$500,000. Hecla No. 2. Shaft, 40,000 tons; steam and horse; 500 coke ovens, 30,000 tons. Thomas Laird, supt.	
Tyrone	Jehier	H. K. Myers, Cap. \$15,000. Tipton. Slope, 100,000 tons; steam. J. J. Stoker, supt.	
Uniontown	Fayette	J. D. Boyd & Co., W. Main st. Union. Drift, 100,000 tons; horse.	
"	"	Edward Snider (local). Snider. Open pit, 8,500 tons; horse.	
"	"	Stewart Iron Co., Ltd., Sharon, Pa., Fayette Street, pres.; D. R. Chambers, secy.; Harvey H. Brown, treas.; Samuel McClure, mgr. Cap. stk. \$150,000. Brown. Shaft, 90,000 tons; steam, 120 coke ovens, 72,000 tons. F. C. Van Dusen, supt.	
Upper Tyrone	Fayette	J. R. Standler, Scottdale (Westmoreland Co.), Pa. Cap. \$50,000. Dexter and Home. Open pit, 25,000 tons; horse, 100 coke ovens, 30,000 tons. S. R. Fairchild, supt.	
Ursina	Sumerset	Connellsville & Ursina Coal & Coke Co., Scottdale (Westmoreland Co.), Pa., J. M. Rehl, pres.; Joseph Athey, secy.; L. H. Reid, treas. and mgr. Cap. stk. \$110,000. Ethna. Drift, horse, 30 coke ovens.	
Vance Mills	Fayette	E. A. Humphries & Co., Scottdale, Pa. Cap. \$50,000. Chester Coke Works. Slope, 40,000 tons; steam and horse; 37 coke ovens, 25,000 tons. George Armstrong, supt.	
Vanderbilt	Fayette	W. J. Rainey, Cleveland, Ohio, Mercantile Bank Bldg., Moreland. Slope, 60,000 tons; steam. T. J. Mitchell, supt.	
Van Ormer	Cambria	James Wolfenden. Cap. \$1,000. Van Ormer. Open pit, horse.	
Venetia	Washington	D. M. Anderson. Cap. \$150,000. Anderson. Drift, 60,000 tons; steam.	
Walker's Mills	Allegheny	Boyd Coal Co. Cap. \$50,000. Boyd. Drift, 30,000 tons; horse. Jesse H. Sanford, supt.	
Walston	Cambria	Ingleside Coal Co., Johnstown, Pa. Cap. stk. \$20,000. Ingleside. Drift, 60,000 tons; horse. Alfred Slater, supt.	
Walston	Walston	Beh, Lewis & Yates Coal Mining Co., Buffalo, N. Y., Geo. H. Lewis, pres.; Chas. Clifton, secy. and treas.; S. R. Elliott, mgr. Cap. stk. \$100,000. Walston. Drifts and slope, 45,000 tons; steam, breaker, 450 coke ovens. G. W. Snyder, supt.	
Wampum	Lawrence	Wampum Run Coal Co., Railroad st. Mary J. Michard, pres. and treas.; Geo. C. Murdock, secy.; Robert H. Michard, mgr. and supt. Cap. stk. \$14,000. Exels of Nos. 1 and 2. Tunnel, 60,000 tons; horse and steam.	
Waynesburg	Greene	Champion Coal Co. (local). Champion. Slope, 4,000 tons; hand.	
"	"	J. D. Johnson. Cap. \$4,000. Shippery Rock. Open pit, 2,800 tons; hand.	
West Brownsville	Washington	Knob Coal Co., Brownsville, Fayette county, Pa. Thomas Hollenoff, pres.; Ashael Smith, secy.; S. H. Pearsall, treas. and mgr. Cap. stk. \$25,000. Knob. Slope, 80,000 tons; steam. John D. Bakenell, supt.	
West Elizabeth	Allegheny	Joseph Walton & Co., Pittsburg, Pa., 134 Water st., I. N. Burton, mgr. Cap. \$1,500,000. Lower. Drift, 40,000 tons; hand, horse and steam. John W. Piles, supt.	
West Montefrey	Clanton	Skidmore & Lake. Cap. \$25,000. Mineral Ridge. Tunnel, 50,000 tons; hand. C. W. H. Eicke, supt.	
West Newton	Westmoreland	Gough Slope Gas Coal Co. Cap. \$50,000. Gough. Slope, 75,000 tons; steam. R. H. Lattimore, supt.	
W. Overton	Westmoreland	A. C. Overholt & Co. Cap. \$250,000. West Overton. Open pit, 45,000 tons; horse, 110 coke ovens, 48,000 tons. E. F. Overholt, supt.	

COAL BITUMINOUS—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY	
West Salisbury Somerset (P. O. Elk Lick R. R.)	Standard Coal Co., M. F. Statter, pres't, mgt. and supt.; C. E. Statter, secy. and treas. Cap. stk. \$5,000 Standard. Drift, 30,000 tons, horse.
" " "	E. Statter. Cap. \$5,000. Statter. Drift, 20,000 tons, horse.
White Ash Allegheny Ry. Sandy Creek R.	New York & Cleveland Gas Coal Co., Pittsburg, Pa., 290 Penn. av., W. F. De Armit, pres't., Frank Sengle, secy. and treas.; Wm. Fisher, mgt. and supt. Cap. stk. \$1,000,000. Sandy Creek. Tunnel, 200,000 tons, steam and horse.
Whitney Westmoreland Ry. 563.	Hosletter, Connellsville Coke Co., Pittsburg, Pa., 59 Fourth av., George I. Whitney, pres't., Alfred Knox, secy. and treas.; John McFadyen, mgt. Cap. stk. \$5,000,000. Whitney and Lippincott. Slopes, 150,000 tons; steam, 60 coke ovens, 30,000 tons. John T. Rush, supt.
Whitsett Fayette Ry. 591.	Rainbow Coal & Coke Co., cap. \$50,000. Rainbow. Drift, 150,000 tons, steam. H. G. Whitsett, supt.
Wilkinsburg Allegheny Ry. 563.	Hampton Coal Mines, Pittsburg, Pa., 1125 Liberty st., J. M. Brownson, secy. and treas. Thos. C. Dickson, mgt. Hampton. Slope, horse. John L. Stewart, supt.
Willock Allegheny Ry. 42.	First Pool Mongomahela Gas Coal Co., Pittsburg, Pa., 708 Penn. av., Francis L. Robbins, pres't., A. L. Petree, secy.; G. W. Schneiderberg, treas. mgt. and supt. Cap. stk. \$20,000. First Pool. Slutt, 150,000 tons, steam.
Willow Grove Allegheny (P. O. Shutzgum R. 584, 563).	Willow Grove Mining Co., Pittsburg, Pa., 708 Penn. av., F. L. Robbins, mgt. Willow Grove. Slope, 150,000 tons, steam. G. W. Schneiderberg, supt.
Winburne Clearfield Ry. 52.	Sommerville & Buchanan. Cap. \$50,000. Sommerville Nos. 1, 5, 6, 7 and 8. Tunnels, 300,000 tons, horse. John S. Sommerville, supt.
Woodland Clearfield Ry. 52, 563.	Woodland Canal Coal Co., Tyrone, Pa., J. M. Keck, pres't., C. M. Ewing, secy., L. Keck, treas., Edward Keck, mgt. Cap. stk. \$10,000. Kecks. Open pit, 100,000 tons, horse. H. S. Overly, supt.

CORUNDUM

LOCATION OF MINE, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.
TOWN AND COUNTY	
Union Twp Chester Ry. 563.	Ames & Michael & Co., Philadelphia, Pa., 145 N. Fourth st., John H. Hargis, pres't., Lewis Jackson, secy., Louis F. Berts, treas.; Harlan Page, mgt. and supt. Cap. stk. \$7,000. Union and shafts. Steam.

FIRE CLAY

LOCATION OF MINE, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.
TOWN AND COUNTY	
Baydowntown Fayette Ry. Fairchance, 563.	D. H. Finnie. Cap. \$5,000. Finnie's glass pot clay. Open pit, 100 tons. Land.
Chockville Cambria Ry. 566.	Chockville Fire Brick Co., Lock Haven, Pa., N. W. Freshlocks, pres't., R. F. Boyer, secy., R. W. Freshlocks, treas.; H. G. Hurd, mgt. Cap. stk. \$2,000. Fire clay. Drift, land and horse developing.
Mottstown Berks Ry. 578.	Star Clay Co., cap. stk. \$3,000. J. Bordeaux Wilson, mgt. and supt. White China clay. Open pit, 2,400 tons, steam.
Park Quarries Berks Ry. Conway 56.	Park Fire Clay Co., J. A. L. Park, pres't., W. A. Park, treas. Park fire clay. Shafts and slope, 1,000 tons, steam. J. H. Park, supt.

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY	
Friedrich Cumberland Ry. Hunter's Run 578.	Joseph Hays. Gold and silver. Open pit, 5,000 tons. Hot steam, later.

GRAPHITE

TOWN	AND COUNTY.	LOCATION OF MINE, DE BANC, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.	

Uwchland Ry. 578.	Chester	American Plumbago Mining Co., Reading, Pa., 509 Penn st.	Plumbago.	Shaft and open pit; steam. H. B. Rohrbach, supt.
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IRON

TOWN	AND COUNTY.	LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
Alburtis Ry. 110, 578.	Lehigh	Cal. Weyer & Bro., Morris Schieler, mgr. and supt.	Cap. \$3,000.	Weyer's Ore Bed, brown hematite. Shaft and open pit, 25,000 tons; steam.
Boiling Springs, Cumberland Ry. 578.		Boiling Springs Iron Co., Cap. \$10,000.	Mr. Holly, Letcher, Ege, Lehman, Henry Clay, Springer, Heck, Arnold, hematite and magnetite.	Steam, blast furnace.
"	"	Philadelphia Reading Coal & Iron Co., Pottsville, Pa.	A. A. McLeod, pres.; F. P. Kaercher, secy.; W. C. Church, treas.; C. M. Henderson, mgr.	Cumberland, brown hematite. Tunnel and open pit, 30,000 tons; steam. Asbury Derland, supt.
Bowman's (P. O. Prince) Ry. 118.	Carbon	Prince Manufacturing Co., New York, N. Y., 71 Maiden lane.	A. C. Prince, pres. and mgr.; David Prince, secy. and treas.	Cap. \$10,000. Prince, magnetite. Shaft, slope and tunnel, 10,000 tons; steam and water; paint mill and kilns, 6,000 tons. Henry McFarland, supt.
Boyetown Ry. 578.	Berks	E. & G. Brooke Iron Co., Birdsboro, Pa.	Geo. Brooke, pres.; Geo. W. Harrison, secy.	Boyetown, magnetite. Slope, 12,000 tons; steam, blast furnace. John H. Hardien, supt.
Chaversburg, Cumberland Ry. 110.		George G. Chaver, Cap. \$2,000.	Neikirk, brown hematite.	Open pit, 2,500 tons; steam.
Cornwall Ry. 180, 190.	Lebanon	Cornwall Ore Bank Co., Robert H. Coleman, pres.; R. Percy Alden, secy.; J. Taylor Boyd, treas. and mgr.	Cornwall, magnetite.	Open pit, 750,000 tons; steam and compressed air. J. C. Boyd, supt.
Darbsburg Ry. 160, 564.	York	Lanck & Shelly, Bowman'sdale, Pa.	Cap. \$12,000.	Lanck & Shelly's S. magnetite. Shaft, 27,000 tons; steam. David Ott, supt.
"	"	W. H. Letcher, Letcher's, hematite.	Tunnel, 6,000 tons; steam.	R. A. Spahr, supt.
Five Forks, Franklin Ry. 110, 564.		L. L. Springer, Edenburg, Pa.	Cap. \$1,500.	Millbrook, hematite. Open pit, 3,000 tons; steam. Ben. Mozingo, supt.
Fogelsville Ry. 110, 564.	Lehigh	Crane Iron Co., Catasauqua, Pa.	Mr. Dixon, pres.; J. S. Elverson, mgr.	Brown hematite. Open pit and shaft, 6,000 tons; steam. J. S. Laros, supt.
Gosholt, P. O. McNeal Ry. 578.	Huntingdon	Rockhill Iron & Coal Co., Philadelphia, Pa., 320 Walnut st.	Wm. A. Ingham, pres.; J. E. Haverstick, secy. and treas.; A. W. Sims, mgr.	Cap. \$1,000,000. Shade Gap, fossil. Tunnel, 130,000 tons; horse, blast furnace. Joseph Repper, supt.
Greentown Ry. 564.	Adams	Caladonian Mining & Manufacturing Co., New York City, 93 and 95 Nassau st.	Wm. H. Male, pres.; J. P. Kaim, secy. and treas.; J. J. Morehouse, mgr. and supt.	Cap. \$250,000. Wolf Hill, hematite. Shaft and tunnel; water.
Hunter's Run, Cumberland Ry. 578.		Weaver & Bortz, Cap. \$30,000.	Lehman, hematite.	Tunnels, 10,000 tons; steam. J. A. R. McBride, supt.
Ironville, P. O. and Ry. Hellertown 578.	Northampton	John R. Duff & Son, Hellertown, Pa.	Hematite.	Open pit and shaft, 6,000 tons; steam.
Jochims Ry. 578.	Berks	Phoenix Iron Co., Philadelphia, Pa., 40 Walnut st.	David Reeves, pres.; G. G. White, secy.; J. O. Pense, treas.; W. H. Reeves, gen. supt.	Jones, magnetite. Open pit, 10,000 tons; steam, blast furnace. John H. Hardien, supt.
Kearney Ry. 564.	Snyder	Bickel Bros., Fredsburg, Pa.	Laurel Hill, fossil ore.	Tunnel, 1,200 tons; hand. F. J. Bickel, supt.
Lehigh Gap Ry. 564, 118.	Carbon	Henry Erwin, Bethlehem, Pa.	Cap. \$30,000.	Black Rock, iron. Shaft and open pit, 2,500 tons; steam.
Madison Ry. 110.	Armstrong	McPhavra & Stone, Madison, Pa.	Hematite.	Open pit, 2,470 tons.
Mont Alto Ry. 564.	Franklin	Mont Alto Iron Co.	Hematite.	Slope and open pit; steam, furnace.
"	"	Smith & Avery, Cap. \$3,000.	Smith, brown hematite.	Open pit, 20 tons; steam.
Orishany Ry. 578.	Huntingdon	W. T. Hocking, Cap. \$15,000.	Booker, fossil.	Tunnel, 10,000 tons; horse and hand; furnace, 30,000 tons. Thomas N. Puckey, supt.
Pine Grove Furnace, Cumberland Ry. 564.		South Mountain Mining & Iron Co., J. C. Fuller, pres.; W. H. Woodward, treas.; S. R. Still, mgr.	Cap. \$1,000,000.	Hematite. 2,000 tons; steam and water, furnace.
Quincy Ry. 564.	Franklin	George G. Rock, Cap. \$1,000.	Laurel Valley.	Open pit, 9,000 tons; steam, furnace.
Rittenhouse Gap, P. O. Shisholtville Ry. 110.	Berks	Hartzell Concentrating Co., Allentown, Pa., 100, Eighth and Walnut sts.	H. K. Hartzell, pres.; F. J. Crane, secy.; W. S. Pilling, treas.; T. W. Lillie, mgr.	Cap. \$10,000. Rittenhouse Gap. Shaft and slope, 40,000 tons; steam, furnace. Peter Worst, supt.
Rock Hill Furnace, Huntingdon Ry. 578.		Rock Hill Iron & Coal Co., Philadelphia, Pa., 320 Walnut st.	Wm. A. Ingham, pres.; J. F. Haverstick, secy. and treas.; A. W. Sims, mgr.	Shade Mount, fossil ore. Tunnel, 15,000 tons; horse, furnace, 20,000 tons. J. Repper, supt.

IRON (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Scotland Ry. Bldg.	Franklin Craig Bros., Cap. \$1,000. Brown hematite. Open pit, 3,500 tons, steam. H. F. Craig, supt.
Scottdaleville Ry. Bethlehem 563.	Berks H. K. Hartzell, Allentown, Pa., cor. Eighth and Walnut sts., Cap. \$10,000. B. Hemphender and Gedman, red hematite. Slopes and shaft, 60,000 tons, steam, furnaces. A. G. Sallade, supt.
Shippensburg Ry. Stewart 553 and 559.	underland George H. Stewart. Newkirk, hematite.
Sligo Ry. 11.	Clarion Leonard Fidler. Tunnel and open pit, 2,500 tons, horse and hand.
Smethley Ry. St. Peters 513.	Chester E. & G. Brooke Iron Co., Birdsboro, Pa. Geo. Brooke, pres.; Geo. W. Harrison, treas.; W. Noble, mgt. and supt. French Creek, hematite. Shaft, 20,000 tons, steam.
Topcon Ry. Fleetwood 578.	Berks Henry Erwin, Bethlehem, Pa., 120 Broad St., Cap. \$25,000. Hochland Deneys. Shaft and open pit, 4,800 tons, steam. Simon P. Ratz, supt.

MINERAL PAINT

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Bethlehem Ry. 118, 578.	Northampton E. C. Bontelle, do. Cap. \$5,000. Red hematite and ochre. Open pit and shaft, 2,000 tons, horse and hand.
Bowen's Station Ry. 578.	Berks J. R. Clair. Cap. \$8,000. Clair's, high grade scum, ochre and oxide. Shaft, 1,200 tons, steam.
Cashville Ry. 563, 578.	Chester C. K. Williams & Co., Easton, Pa. Under. Shaft, 1,500 tons, water and steam.
Fleetwood Ry. 578.	Berks C. K. Williams & Co., Easton, Pa. Ochre. Shaft, 1,500 tons, water and steam.
Hancock Ry. 563, 578, 580.	Berks S. Long & Son, De Long, Pa. Cap. \$20,000. Ochre. Steam.
"	" C. K. Williams & Co., Easton, Pa. Hancock. Ochre. 1,500 tons, steam.
Nazareth Ry. 369, 578.	Northampton Henry Erwin, Bethlehem, Pa. Cap. \$8,000. S. hatched, ochre. Shaft and open pit, 1,200 tons, steam.
Prince Ry. Bowmans 369, 501.	Carbon Prince Manufacturing Co., New York City, 71 Maiden lane. A. C. Prince, pres. and mgt. David Prince, secy. and treas. Cap. \$16, \$8,000. Prince, ochre. Shaft, slope and tunnels, 1,500 tons, water and steam, 4 paint mills, 10,000 tons. Henry McFarland, supt.
Reading Ry. 563, 578, 580.	Berks C. K. Williams & Co., Easton, Pa. Scum. Shaft, 2,000 tons, steam.
Shiner Ry. 578.	Northampton Henry Erwin, Bethlehem, Pa. Cap. \$6,000. Daniel, ochre. Shaft and open pit, 1,200 tons, steam.
Topcon Ry. Fleetwood 578.	Berks Henry Erwin, Bethlehem, Pa., 120 Broad St., Cap. \$25,000. Hochland Deneys, ochre. Shaft and open pit, 2,500 tons, steam. Simon P. Ratz, supt.

NICKEL

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Nickel Mines Ry. Cap. Station 565.	Lancaster Joseph Wharton, Philadelphia, Pa., P. O. Box 1642. Cap. Shaft, 5,000 tons, steam. Capital. Charles Polke, supt.

SALT

LOCATION OF MINE OR WELL.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.		
Allegheny Ry. 563, 565, 585, 592.	Allegheny Haller, Beck & Co., cor. Western and Beaver ays. Augustine Haller, mgt. Cap. \$10,000. Union Salt Works, dairy and coarse. Well, 12,000 brls. steam.	
Builer Ry. 563, 588, 592.	Builer Bittler Chemical Co., J. H. Troutman, pres.; W. J. Cassidy, secy. H. C. Heinemann, treas.; Schuyler Frazer, mgt. Cap. \$16 \$100,000. All kinds. Well, 50,000 brls., steam.	

SAND

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT	
TOWNS	AND	COUNTY		
Lewistown		Mifflin	Juniata Sand Co., Thomas Baumgardner, pres.; Geo. M. Franklin, treas.; B. F. Irving, mgr. Cap. stk. \$100,000. Juniata, flint glass sand. Tunnel, 30,000 tons; steam.	
McVeytown		Mifflin	C. P. Dull. Cap. \$30,000. Excelsior, white sand. Slope, 20,000 tons; steam and horse.	
"		"	Macklin & Stevenson. M. & S., flint glass sand. Tunnels, 14,000 tons; steam.	
Mapleton	Huntingdon		Samuel Hatfield jr. Cap. \$12,000. Mapleton, glass sand. Open pit, 30,000 tons; steam.	
Mapleton	(C. O. Mapleton Depot)	DePot		
Whitvay		Mifflin	Enterprise Sand Co., McVeytown, Pa. Wm. Ewing, mgr. and supt. Enterprise, flint glass sand. Tunnels, slope and pit, 25,000 tons; steam, stone mill.	

SLATE

LOCATION OF QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF QUARRY, KIND OF SLATE, KIND OF QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF QUARRY SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Bangor		Northampton	Acme Slate Co., John W. Underhill, pres.; J. H. Shull, secy. and treas.; Wm. A. Winsboro, mgr. and supt. Cap. stk. \$150,000. Acme, roofing slate. Open pit, 7,000 tons; steam.	
"		"	American Bangor Slate Co., Easton, Pa., 14 S. Third st. Frank Fowler, pres.; J. Edgar Mitchell, secy. and treas.; Cotton Amy, mgr. Cap. stk. \$100,000. American Bangor, slate. Open pit, 5,000 tons; steam, mill, Wm. Kellow, supt.	
"		"	Auld, Conger & Co., J. W. Conger, pres.; W. E. Lloyd, secy. and mgr. Cap. stk. \$30,000. Bangor Union, slate. Open pit, 8,000 tons; steam, mill, W. D. Jones, supt.	
"		"	Bangor Southern Slate Co., Ltd., New York City, 38 Park row. F. W. Dinton, pres.; E. J. Johnson, secy., treas. and mgr. Cap. stk. \$200,000. Bangor Southern, roofing slate. Open pit, steam.	
"		"	Columbia Bangor Slate Co. Cap. \$25,000. Columbia Bangor, roofing slate. Open pit, 6,000 tons; steam, G. H. Mutton, supt.	
"		"	Northampton Slate Co., Samuel Flory, pres.; E. H. Albertson, secy.; Chris Walters, treas.; Charles De- treck, mgr. and supt. Cap. stk. \$100,000. Northampton, roofing slate. Open pit; steam, mill.	
"		"	North Bangor Slate Co., Newark, N. J., 41 Camp st. Elkannah Drake, pres. and treas.; F. W. Wilkinson, secy.; Chas. E. Snyder, mgr. and supt. North Bangor, slate. Open pit, 65,000 tons; steam, mill.	
Bellast		Northampton	G. Frank Messenger, Tatum, Pa. Cap. \$25,000. Bellast Hard Vein, slate. Open pit, 6,000 tons; steam, Thomas Evans, supt.	
"		"	Northampton Hard Vein Slate Co., Easton, Pa., 700 Walnut av. James Young, pres.; Geo. W. Geiser, secy. Theo. Whitesell, treas. and mgr. Cap. stk. \$25,000. Northampton Hard Vein, slate. Open pit, 6,000 tons; steam, A. E. Steller, supt.	
"		"	Pennsylvania Hard Vein Slate Co., Easton, Pa., Easton Trust Co. Bldg. Geo. W. Geiser, pres.; N. A. Fisher, secy.; Birge Pearson, treas.; mgr. and supt. Cap. stk. \$25,000. Pennsylvania Hard Vein, slate. Open pit, 1,500 tons; steam.	
"		"	Portland Slate Co., J. J. Johnson, pres.; J. L. Watson, secy. and treas.; Wm. W. Jones, supt. and mgr. Bellast, roofing slate. 6,000 tons; steam.	
"		"	Theo. Whitesell & Co., Easton, Pa., 700 Walnut av. Cap. \$10,000. Whitesell Hard Vein, slate. Open pit, 10,000 tons; steam, E. P. Lamb, supt.	
Bethlehem		Northampton	Old Bangor Slate Co., J. S. Harris, pres.; J. S. Moyer, secy. and treas. Cap. stk. \$250,000. Old Bangor, slate, 47,000 tons; steam, horse and hand, Chas. Shuman, supt.	
Brodbeck's	York		John Lewis, Llanberis, slate. Open pit, hand.	
Chapman		Northampton	Chapman Slate Co., New York City, 52 and 50 West st. Wm. Chapman, pres. and treas.; M. L. Balin, secy. Theo. Whitesell, treas. and mgr. Cap. stk. \$300,000. Chapman Hard Vein, slate. Open pit, 6,000 tons; steam, Richard Chapman, supt.	
Chapman	Quarry	Northampton		
Chapman	Quarries	Northampton	Key-stone Slate Co., Robt. C. H. Brock, pres.; Arthur Brock, secy. and treas.; Henry G. West, mgr. and supt. Cap. stk. \$200,000. Key-stone, roofing slate. Open pit, 25,000 tons; steam, mill.	
Daniel'sville		Northampton	Excelsior Slate Co., Camden, N. J., Third and Market sts. Wm. Whitmer, pres.; G. W. Crenshaw, secy. and treas. Cap. stk. \$50,000. Excelsior, slate. Open pit. Steam developing; John D. Schater, supt.	
"		"	Franklin M. Bower, Cap. \$75,000. Peach Hill, slate. Open pit, 5,000 tons; steam, J. K. Bower and A. A. Bossard, supts.	
Della	York		Arthur F. Edie, York, Pa., 30 E. Market st. Cap. \$10,000. Roofing slate. Open pit, 5,000 tons; steam, Wm. O. Hughes, supt.	
"		"	Excelsior Slate Co., R. L. Jones, pres. and gen. mgr.; Fred. R. Williams, secy. and treas. Excelsior, roofing slate. Open pit, steam, W. Penn Jones, supt.	
"		"	R. L. Jones & Co. Old Big, roofing slate. Open pit, steam.	
"		"	Peerless Slate Co., Pittsburg, Pa., 47 Seventh st. E. M. Aiken, pres.; H. L. Aiken, secy. Peerless, open pit, steam, John W. Jones, supt.	
"		"	V. G. Stubbs & son, Timothy E. Morgan, supt. Stubbs, roofing slate. Steam.	
East-Bangor		Northampton	East Bangor Consolidated Slate Co., Sylvester C. Smith, pres.; M. C. Swartsweller, secy. and treas. Cap. stk. \$300,000. East Bangor Consolidated, black slate. Open pits, steam, mill, William Bray, supt.	

SLATE. CONTINUED.

LOCATION OF QUARRY, RAILWAY, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF QUARRY, KIND OF SLATE, KIND OF QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF QUARRY SUPERINTENDENT.	
TOWN	AND	COUNTY.		
East Bangor	Northampton		East Bangor Northern Slate Co., James Masters, prest. and treas., John Longmead, seey., mgt. and supt., East Bangor Northern, roofing slate. Open pit, 1,200 tons, steam.	
"	"	"	East Bangor Slate Mining Co., Henry Williams, prest., James Masters, seey., mgt. and supt., Cap. stk. \$12,000. Old East Bangor, roofing slate. Open pit, steam.	
"	"	"	Standard Slate Co., Cotton Amy, prest. and mgt., Chas. S. Ford, seey. and treas., Standard, roofing slate. Open pit, steam. Wm. W. Amy, supt.	
"	"	"	Star Slate Co., John K. Ditchett, prest. and supt., Chas. S. Ford, seey., Cotton Amy, treas. and mgt., Cap. \$10,000. Star roofing slate. 10,000 tons; steam, mill.	
Easton	Northampton		Edelman's Hard Vein Slate Co., W. Doremus, prest.; H. Trauger, seey.; N. H. Bett, treas.; T. Jones, mgt., Slate. Open pit, steam, 3,000 tons.	
Edelman	Northampton	Ry. 47.	Flory & Lehr Hard Vein Slate Co., Easton, Pa., F. H. Lehr, prest., Calvin Atner, seey., Horace Lehr, treas., Cap. stk. \$5,000. Flory & Lehr Hard Vein, slate. Open pit, steam, Eugene Hartman, supt.	
Lynnport	Lehigh	Ry. 57.	George Bower, Catasauqua, Pa., Cap. \$10,000. Lynn, slate. Steam, mills.	
"	"	"	Enterprise Slate Co., Philadelphia, Pa., 1822 Filbert st., D. E. Wemmaker, prest.; J. H. Bachman, seey.; J. B. Wandell, treas.; O. M. Snyder, mgt., Cap. stk. \$50,000. Ontalamee, slate. Open pit, 6,000 tons, steam, mills. W. D. Wemler, supt.	
Mt. Bethel	Northampton	Ry. 47, 565.	Mount Bethel Hard Vein Slate Co., J. Moore, prest.; B. F. Raessy, seey.; R. J. Grover, treas., Cap. stk. \$25,000. Mount Bethel Hard Vein, slate. Open pit, steam. Owen O. Williams, supt.	
Muncy	Lycum	Ry. 563, 578.	Keystone Portland Cement Co., Williamsport, Pa., cor. Third and Pine sts., Elisha Gray, prest., M. L. Downing, seey., H. F. Ames, treas., Ames-Hammond, mgt., Cap. stk. \$25,000. Slate and schist. Open pit, 500 tons; hand, mill. J. F. Barbore, supt.	
Pen Artyd	Northampton	Ry. 47, 563, 575.	William Harding & Co., Main st., Cap. \$10,000. Albion, black roofing slate. Open pit, steam. Reuben Harding, supt.	
"	"	"	Jackson Bros., J. H. Jackson, prest. and treas.; J. F. Jackson, mgt., Cap. stk. \$10,000. Jackson Bros., roofing slate. Open pit, 9,000 tons; steam, mill. John D. Schumers, supt.	
"	"	"	Jackson Slate Co., Schuylkill and Muncy, Richard Jackson, prest. and supt., Cap. stk. \$25,000. St. Elmo, roofing slate. Open pit, 1,000 tons; steam.	
"	"	"	Luckawanna Slate Co., Geo. H. M. for, prest. and mgt., John Loney, seey., A. C. Young, treas., Cap. stk. \$25,000. Luckawanna, slate. Open pit, 10,000 tons; steam. Joseph E. Reym, supt.	
"	"	"	William Lobb & Sons, Cap. \$10,000. Albion, roofing slate. Steam.	
"	"	"	William Masters, Cap. \$10,000. Freeborn, roofing slate. 2,000 tons; steam.	
"	"	"	James H. Sampson & Son, Danand Slate Works, roofing slate. Open pit, 1,500 tons; steam, mills. Premier H. Sampson, supt.	
"	"	"	Stephens, Jackson & Co., Conover, roofing slate. Open pit, steam.	
"	"	"	United States Slate Co., Thos. Fisher, prest.; F. K. Armstrong, seey.; John Fisher, mgt., United States, roofing slate. Open pit, 6,000 tons; steam.	
Portland	Northampton	Ry. 47, 565.	Globe Hard Vein Slate Co., New York City, 56 Wall st., M. K. Kellum, prest.; J. R. Stanton, seey.; A. O. Allen, treas. and mgt., Cap. stk. \$12,500. Globe Hard Vein, slate. Open pit.	
Scrumsville	Northampton	Ry. Catasauqua 78.	Zegenfuss Slate Co., Geo. Zegenfuss, mgt., Cap. stk. \$20,000. Zegenfuss, roofing slate. Open pit, 2,000 tons; steam.	
Slatton	Northampton	Ry. 500.	Snowden Slate Co., Henry Snowden, prest.; John H. King, seey., treas. and mgt., Cap. stk. \$100,000. Snowden, roofing slate. Open pit, 1,750 tons; steam, mill. R. P. Jones, supt.	
Slatton	Lehigh	Ry. 563, 578, 565.	Blue Valley Slate Co., Main st., L. D. Peters, prest.; A. P. Neff, seey.; Joel Neff, treas., mgt. and supt., Cap. stk. \$8,000. Blue Valley, roofing slate. Open pit, 6,000 tons; steam, mills.	
"	"	"	Carbon Slate Co., Cap. \$10,000. Carbon, roofing slate, steam and horse, mill. J. S. Owens, supt.	
"	"	"	Samuel Caskey, Heimbach, slate. Pit and shaft, 4,000 tons; steam.	
"	"	"	G. R. Davies & Son, William Penn, roofing slate. Open pit and tunnel; steam.	
"	"	"	Henry Palmer, Palmer's, roofing slate. Open pit, 1,200 tons.	
"	"	"	Henry Kuntz, Cap. \$125,000. B2 Frank'n, Washington Bangor, S. W. Brody, Old Washington and Mountain Beth, black roofing slate. Open pits and tunnel, 7,000 tons; steam. James L. Foot, supt.	
"	"	"	Old Lehigh Slate Co., Philadelphia, Pa., 102 Arch st., Berwyn, slate. Open pit, steam, factory. W. Bachman, supt.	
"	"	"	F. D. Peters & Co., Cap. \$10,000. Frank'n, Union, roofing slate. Open pit, 2,000 tons; steam. Berwyn, Muncy, supt.	
"	"	"	Sugers's Slate Quarrying & Manufacturing Co., Chas. M. Dodson, prest.; Geo. W. Schumaker, seey.; Josiah Bachman, treas.; Samuel J. Kistler, mgt. and supt., Cap. stk. \$10,000. Sugers's, slate. Open pit, 6,000 tons; steam.	
"	"	"	A. P. Stockel, Gerard, Dr. Frank'n, slate. 2,000 tons; steam.	
"	"	"	David Williams, Slate. Open pit, 1,400 tons; steam. J. W. Williams, supt.	
"	"	"	O. L. Williams & Son, Cap. \$10,000. Williams' Large Veins, slate. Tunnel, steam.	
Stemmy's	Lehigh	Ry. Wamameters 578.	Reid & Trickett, Roofing slate and flag, 2,000. Open pits, 4,000 tons; steam. Gas L. W. Reid, supt.	
Truchard	Northampton	Ry. 418.	Boyer, Beck & Son, John H. Beck, mgt. and supt., State Dam, roofing slate. Open pit, steam.	
Wamameters	Northampton	Ry. 418, 565.	R. Raymond Jones, Cap. \$1,000. Roofing slate. Open pit, 50 tons; horse.	
"	"	"	Wm. Griffith & Son, Germantown, Pa., Cap. \$10,000. Heimbach, slate. Open pit, 1,000 tons; steam.	

SLATE (CONTINUED)

LOCATION OF QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF QUARRY, KIND OF SLATE, KIND OF QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF QUARRY SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Warrenmakers Ry. 578.		Lehigh	Reading Slate Co., Philadelphia, Pa., 122 Entlaw st. Jos. Lieberman, pres.; August Liebold, secy.; James Y. MacDonnell, treas.; John Jones, mgr. and supt. Cap. stk. \$100,000. Reading, roofing slate. Open pit, 600 tons; steam.	
West Bangor Ry. Delta 41.		York	Edward W. Evans & Co., Ltd., Pittsburg, Pa., 1012 Penn. av. W. J. Rowlands, pres.; E. W. Evans, secy., mgr. and supt. P. L. Goulson, treas. Cap. stk. \$5,000. Roofing slate. Open pit, 1,000 tons; steam.	
Wind Gap, Northampton Ry. 47, 355, 565.		Alphig	Slate Co., Bangor, Pa. Wm. A. Winsboro, pres., mgr. and supt.; H. Underhill, secy.; Miner Trowbridge, treas. Cap. stk. \$150,000. Alpha, roofing slate. Open pit; steam (developing).	
"		"	Imperial Slate Co., Stroudsburg, Pa. H. J. Kotz, pres.; Morris Evans, secy.; Allen Metzgar, treas.; Robt. J. Vasseur, mgr. and supt. Cap. stk. \$150,000. Imperial, roofing and school slate. Open pit, 2,500 tons; steam.	
"		"	Wind Gap Slate Mfg. Co., Beldyere, N. J. Ellwood Vapender, pres.; P. S. Vetter, secy.; Reuben Emery, treas.; C. Stanley, mgr. and supt. Cap. stk. \$60,000. Wind Gap, slate. Open pit; steam, mill.	

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Agnaw Ry. Conowing 563.		Beaver	John Romigh. Charles Cheney's, freestone and sandstone.	
Annyville Ry. 578.		Lebanon	Bartdorf & Beaver. West Annyville, limestone. Open pit, 15,000 tons; limekilns, 6,000 tons.	
"		"	Maudhair & Forney. M. & F., limestone. Slope, hand and steam; limekilns, 8,400 tons.	
Avooca Ry. 213, 252, 118, 563.		Luzerne	Seamans & Hollister. Avooca Stone Quarry, greenstone. Open pit; horse, mill.	
Avondale Ry. 563, 577.		Chester	Aene Lime Co., Ltd., R. H. Hepburn, pres. and mgr.; J. Kirk Meyers, secy.; Joshua Hunt, treas. Cap. stk. \$12,000. Aene Avondale, silica, marble. Open pit, 37,000 tons; steam. George M. Kerr, supt.	
"		"	Avondale Lime & Stone Co., Philadelphia, Pa., 232 Chestnut st. Wm. Henderson, pres.; Samuel Gayley, secy.; Frank Williamson, treas.; John G. Williamson, mgr. Cap. stk. \$30,000. Avondale, limestone. Open pit, 75,000 tons; steam and horse, mill, limekilns, 10,500 tons. J. Warren Dixon, supt.	
Birdsboro Ry. 563, 578, 820.		Berks	James Humphreys. Cap. \$2,000. Hampton, brownstone. Open pit, 3,000 tons; horse and hand.	
Birmingham Ry. 563.		Huntingdon	Camden Iron Co., Philadelphia, Pa., 218 S. Fourth st. Powell Stackhouse, pres.; — Kyle, secy.; W. S. Robinson, treas.; Chas. S. Price, gen. mgr. Birmingham, limestone. Open pit, 30,000 tons; steam, mill. S. R. Isenberger, supt.	
Blairsville Ry. 563.		Indiana	Annie M. Wilson. Feldman, building stone. Hand. W. D. Jones, supt.	
Bradford Ry. 85, 12, 503, 72.		McKean	National Brick & Tile Co., 18 Main st. L. Emery n., pres.; Robt. L. Edgett, secy. and treas.; C. M. Cook, mgr. Cap. stk. \$20,000. Lewis Run, red slate. Open pit, steam.	
Carlton (P. O. Williamsburg 2) Ry. 563.		Blair	Juniata Limestone Co., Ltd., Williamsburg, Pa. J. K. McLanahan, pres.; W. L. Baldrige, secy. and treas.; Wm. Rice, mgr. Cap. stk. \$50,000. Juniata, limestone. Open pit, 30,000 tons; steam and compressed air.	
Chester Ry. 42, 563, 578.		Delaware	C. W. Andrew (local), 152 Highland Terrace. Granite. Open pit, 4,500 tons; hand.	
"		"	Leiper & Lewis, Philadelphia, Pa., 2301 Chestnut st. Cap. \$55,000. Leiper & Lewis, gneiss, granite, 20,000 tons; steam and horse.	
"		"	S. S. Betowler & Co., Cap. \$75,000. Betowler's, stone. Open pit, 30,000 tons; dynamite, Nelson Cooper, supt.	
Columbia Ry. 578, 563.		Lancaster	S. & G. Hoffman. Cap. \$3,000. Hoffman's, limestone. 22,500 tons; steam; mill. S. S. Hoffman, supt.	
Conestogville Ry. 42, 563.		Fayette	Hope Manufacturing Co., W. D. McDowell, pres.; David Williams, secy. and treas.; R. J. McDowell, mgr. and supt. Cap. stk. \$8,000. Hope, sandstone. Open pit, 12,000 tons; steam, sand mill.	
"		"	Keeling, Ridge & Co., Pittsburg, Pa., 111 Southfield st. Cap. \$1,000,000. Belgian Block, paving blocks. Open pit, steam, horse and hand. Patrick Ridge, supt.	
"		"	Snyder & Blair. Cap. \$5,000. Sand Rock, white sandstone. Open pit, horse (developing), Geo. B. Snyder, supt.	
Conway Station (P. O. Park Quarries Ry. 563.)		Beaver	Park & Park, Park Quarries, Pa. Baden, building stone.	
Crawther Ry. 502.		Lawrence	Laughlin & Co., Ltd., Pittsburg, Pa., cor. Third av. and 11st st. H. A. Laughlin, pres.; James Laughlin, n. secy. and treas.; W. C. Quiney, mgr. Newton's, limestone. Open pit, 67,500 tons; hand and steam, mill. Daniel Jones, supt.	
Dillsburg Ry. 129.		York	Feld Bros. (local). Cap. \$4,000. Evans, limestone. Open pit, 24,000 tons; horse, kiln, 1,200 tons. John Feld, supt.	
Durham Ry. Ephrata 578.		Lancaster	Helmy & Wike. Turkey Hill and Coconeo, pebble flint sandstone. Open pit, 200 tons; hand, mill.	
"		"	Benjamin Wissler, Lincoln, Pa. Cap. \$5,000. Coconeo, millstone. Open pit, 50 tons; hand; mill. Emanuel Helmy, supt.	
Easton Ry. 118, 201, 233, 563.		Northampton	John O. Wagener & Co., 33 S. Fourth st. West End and East End, soap-stone, talc and silestone. Slope and open pit, 2500 tons; water, stone mill and pulverizer.	

STONE, MARBLE, GRANITE AND ONYX (CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Easton	Northampton		C. K. Williams & Co. Soapstone. Open pit, 2,000 tons; water and steam.	
<i>(Continued.)</i>				
Frankford	Philadelphia		Barbom & Ireland. Cap. \$50,000. Frankford, blue gneiss and granite. 40,000 tons, steam, mill. E. Rythe way and M. Dem, supts.	
Freeburg	Snyder		H. H. Glass. Limestone. Limekiln, 500 tons.	
Germantown Philadelphia Ry. 563, 578.			James S. McKinny, 139 Maplewood av. Cap. \$15,000. McKinny's, hornblende, gneiss. Open pit, 4,000 tons; steam and horse. R. K. D. McKinny, supt.	
" " "			C. S. Pyle, Wayne st. Germantown, hard limestone. Slope, steam, mill.	
Gettysburg Ry. 578, 504			J. W. Flaherty. Wolf Hill, granite. 100 tons, hand.	
" " "			Nathaniel Lightner. Powers Hill, diabase, granite. Open pit, hand.	
Gracelandburg Ry. 563.			Caledonia Mining & Manufacturing Co., New York City, 93 and 95 Nassau st. Wm. H. Male, prest., J. P. Ranney, secy. and treas.; James J. Morehouse, mgt. and supt. Cap. stk. \$250,000. Pond Bank, white granite and blnd. Open pit, steam, mill.	
Greenville Ry. 563, 501, 588			Amy & Co. Cap. \$5,000. Flagstone. Open pit, hand and steam, mill. C. F. Amy, supt.	
Groveton Ry. 578.			John Christian	
Hellsbottom Northampton Ry. 578.			H. D. Heller. Stevens, limestone. Open pit, 25,000 tons. Hand and horse. Samuel Kostenbader, supt.	
Holmesburg Philadelphia Ry. 563.			House of Correction, Philadelphia, Pa. James A. Freeman, prest. House of Correction, limestone, 22,725 tons. Steam, horse and hand; mill.	
Hookersville Ry. 42.			I. J. Blough & Son. local. Limestone. Tunnel, 50 tons; hand, limekiln, 50 tons.	
Hummelstown Dauphin Ry. 578.			Christian Hershey. Cap. \$50,000. Brookside, limestone. Open pit, 30,500 tons; horse, mill, limekiln, 15 tons.	
" " "			Maultan & Potney, Annville, Pa. Eagle, limestone. Slope, hand and steam, limekilns, 5,000 tons.	
" " "			Middletown & Hummelstown Stone Co., Jos. Campbell, prest.; Chas. Raymond, secy.; Geo. H. Grove, treas., mgt. and supt. Cap. stk. \$75,000. M. & H., brownstone and limestone. Slope, 50,000 tons, steam, mill.	
Idaville Ry. 578.			Sylvester Fished. Cap. \$5,000. White flint stone. Open pit, 5,000 tons; horse. H. J. Gardner, supt.	
Ironton Ry. 330.			Diehl & Folk. Diehl's, slate stone. Open pit, 18,000 tons; steam, mill.	
" " "			Thomas Iron Co., Hokenkamp, Pa. Samuel Thomas, prest.; Wm. Andrews, mgt.; Schraft & Keeter's, limestone. Open pit, 20,000 tons. Steam. Joseph Keeter, supt.	
Jersey Mills Ry. 575.			J. R. Glover. Cap. \$20,000. Glover and Underwood. 5,500 tons; horse and hand.	
" " "			Thomas Parker. Flagstone. Open pit, horse and hand.	
Kramer Town (P. O. St. Peters) Ry. 578.			Davis Kramer. Cap. \$40,000. Falls of French creek, paving stone. 7,500 tons; steam, mill. John Benny, supt.	
Lancaster Ry. 563, 578.			Dr. F. H. Mayer, Willow st. Gneiss building stone. Hand.	
Langhorne Ry. 563, 578.			Langhorne Spring Water Co. Charles Hill, prest.; John S. Wright, secy. and treas. Building stone. Open pit, 1,000 tons; hand.	
Lenox Susquehanna Ry. Nicholson Station 200.			Hiram Buck. Cap. \$1,500. Buck, bluestone. Open pit, hand.	
Lima Delaware Ry. Glen Riddle 577.			Jesse Hilberd. Gneiss rock.	
Littlestown Ry. 563.			George N. Riddle & Bro. Cap. \$1,500. Limestone. Steam, mill, limekiln, 50 tons.	
McKee's Gap Ry. 563.			Jimmie Ganster Co., A. S. Morrow, prest.; J. L. Hartman, secy.; treas. and mgt. Cap. stk. \$50,000. McKee's Gap, granite. Slope, 10,000 tons; dynamite. Harry Sellers, supt.	
Mahoning Ry. 41.			McTavay & Stone, Mahoning, limestone. Open pit, 6,500 tons.	
Mapleton Huntingdon (P. O. Mapleton Depot) Ry. 563.			Speer White Sand Co., Pittsburg, Pa. Hamilton Bldg. J. H. Speer, secy. and treas.; N. Q. Speer, mgt. Cap. stk. \$50,000. White sandstone. Open pit, 60,000 tons; steam. T. M. Speer, supt.	
" " "			Swope & Gayton. Swope & Gayton's, limestone and sandstone. Open pit. J. N. Swope, supt.	
Marble Hill (P. O. Confluence) Ry. 42.			Marble Hill quarry Co., Pittsburg, Pa. Pennay. Robert Smith, prest.; A. P. Kortland, secy. and treas.; E. K. Morse, mgt. Cap. stk. \$80,000. Marble Hill, brown lignum, granite. Slope, steam. D. W. Patton, supt.	
Metztown Ry. 578.			Henry J. Trexler. H. J. Trexler's, limestone. Open pit, 4,500 tons; steam, mill, limekiln, 4,000 tons. John E. Trexler, supt.	
Morrell Huntingdon Ry. Union Furnace 563.			H. J. McAteer, H. C. Beck, mgt. and supt. Union Furnace, limestone. Slope, 18,000 tons; steam, mill.	
Mt Pleasant Westmoreland Ry. 567.			J. H. Kimbrough local. Limestone. Open pit, 900 tons; hand, kiln, 600 tons.	

STONE, MARBLE, GRANITE AND ONYX (CONTINUED)

LOCATION OF MINE OR QUARRY RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERILLS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND COUNTY		
New Brighton	Beaver	Beaver Valley Stone & Clay Co., Jos. Wilson, pres.; W. C. Peatling, secy. and treas.; Wm. Fish, mgr. and supt., Cap. stk. \$35,000.	Block House Run, sandstone and clay. Open pit.
New Galilee	Beaver	Joseph Hartman & Son, Pittsburg, Pa., 6215 Station av.	Hartman's, sandstone.
"	"	Park & Park, Park Quarries, Pa.	New Galilee, dimension building stone.
Nicholson	Wyoming	Moses Shields jr., Cap. \$20,000.	Nicholson, flag and building stone. Open pit, 9,000 tons; horse and steam.
Oriskany	Huntingdon	J. J. Brodbeck, Grove, limestone.	Open pit, 200 tons.
Overbrook	Montgomery	J. T. Stadelman, Stadelman's, blue granite.	Open pit, steam.
Palmira	Lebanon	Manhair & Forney, Annville, Pa.	Gingrich, limestone. Slope; steam and hand; limekilns, 8,000 tons.
Perkiomenaville	Montgomery	Fisher & Son, Cap. \$2,000.	Deep Creek, Belgian blocks and dimension stone. Hand; stone mill, 200 tons.
Picture Rocks	Lyonning	Charles F. Billamboz, Picture Rocks, bluestone, flagging.	Open pit, 5,000 tons; hand.
"	"	George West, Cap. \$2,000.	Picture Rocks Stone Works. Open pit, 200 tons; hand.
Pitt ton	Lazerte	Symington & Perrin, 9 Montgomery st.	Blue building stone. Open pit; steam.
Ridley Park	Delaware	Joseph H. Ward, Cap. \$15,000.	Crum Creek, gray granite. Open pit, 14,000 tons; steam. Joseph Smiley, supt.
Rockwood	Somerset	J. C. McSpadden, Cap. \$25,000.	Somerset, blue and brown paving blocks. Open pit, 50,000 tons; steam; mill. M. J. Corrigan, supt.
Sesholtzville	Berks	Keystone State Granite Co., Shemadenoh, Pa., 127 N. Jardin st.	J. H. Master, pres.; M. H. Master, secy. and mgr. Granite, 200 tons; horse.
Shamlines	Montgomery	Wm. P. David & Co., Limestone.	Open pit, horse and hand, kiln, 11,512 tons.
"	(P. O. Bridgeport) Ry.		
Sherman	Wayne	O. M. Kingsbury & Co., Hales Eddy, N. Y.	Flagstone. Open pit, hand.
"	Ry. Hales Eddy 563.		
Silvira	Bradford	W. A. Bennett, Cap. \$5,000.	Bennett's, flagstone. Tunnel, 2,400 tons; horse.
"	Ry. Skimmers Eddy 578.		
Spragueville	Monroe	Detrick & Cramer, Anabonink, Pa.	Cap. \$2,000. Spragueville, bluestone, rock powder. Mill.
"	(P. O. Anabonink) Ry. 209.		
Spring Creek Sta.	Lehigh	John A. Walbert, Limestone.	Open pit, 6,000 tons; horse and hand. Jacob Miller, supt.
"	(P. O. Trexlertown) Ry. 110.		
Spring Mill	Montgomery	William Little, William Penn, Pa.	Gray ironstone. Open pit, steam, stone mill.
"	(P. O. William Penn) Ry. 573, 578.		
Spring Mt.	Montgomery	J. W. Klein, Cap. \$30,000.	Spring Mount, granite. Open pits, shaft, 8,000 tons; steam and hand, mill.
"	Ry. 578.		
Stattenev	Wayne	O. M. Kingsbury & Co., Hales Eddy, N. Y.	Flagstone. Open pit; hand.
"	Ry. 566.		
Swatara Station	Dauphin	Swatara Stone & Lime Co., Cap. \$10,000.	Swatara, limestone. Open pit, 250,000 tons; horse and hand; kiln. I. H. Balsbaugh, supt.
Urah	Cumberland	Sylvester Fisher, Davidsville, Pa.	Cap. \$5,000. White flint stone. Open pit, 3,000 tons; horse. Baten Beam, supt.
Walkers Mills	Allegheny	Walkers Mills Quarry Co., W. W. Hazlett, mgr. and supt.	Cap. stk. \$20,000. Walkers Mills, sandstone. Open pit, 60,000 tons; steam, horse and hand.
Wampum	Lawrence	Consolidated Stone & Mining Co., Pittsburg, Pa., 31 Fifth av.	John G. Ingham, pres.; G. B. Ingham, mgr. Cap. stk. \$25,000. Rock Point and Spangler, sandstone. 25,000 tons; steam, horse and hand. James Connor, supt.
"	Ry. 563, 592.		
Waynesburg	Greene	J. F. B. Phillips & Sons, Cap. \$200.	Rees, building stone. Open pit, mill.
"	Ry. 804.		
Wernersville	Berks	J. A. Ruth, Ruth's, limestone.	Open pit, limekiln, 320 tons.
West Conshohocken	Montgomery	Philadelphia & Conshohocken Stone Quarry Co., Philadelphia, Pa., 216 South Fourth st.	E. J. Matthews, pres.; H. C. Eagleson, secy. and treas.; F. D. Koch, mgr. and supt. Cap. stk. \$100,000. Philadelphia & Conshohocken, foundation and building stone. Open pit, 20,000 tons; steam and hand.
"	Ry. and P. O. Conshohocken 578.		
West Le Roy	Bradford	Thomas Sutton, Canton, Pa.	Cap. \$2,000. Bluestone. Open pit, 10,000 tons; electricity, mill. Samuel Owens, supt.
"	Ry. Canton 528.		
Westmoreland	Westmoreland	Westmoreland Fire Brick Co., Pittsburg, Pa., Hamilton Bldg.	John George, pres.; M. M. O'Connell, secy. and mgr. John A. Wilson, treas. Cap. stk. \$90,000. Westmoreland, fire clay and sandstone. Tunnel, steam, developing. F. R. Reed, supt.
"	Not a P. O.; Ry. 565.		
Williams Mill	Chamberl'd	H. K. Speltz, Williams Mill, Pa.	Williams, lime and building stone. Open pit, electricity and hand, limekilns, 1,000 tons.
"	Ry. Williams Grove 578.		
White Id.	Union	C. M. Brooke & Co., White Id., limestone.	Open pit, 4,700 tons; horse and hand, kiln, 4,700 tons.
"	Ry. 578.		

STONE, MARBLE, GRANITE AND ONYX (CONTINUED)

TOWNS AND COUNTY.	LOCATION OF MINE OR QUARRY. RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
Weymouth	Somerset (P. O. Milford Station) Ry. 42.	Somerset Stone Co., Johnstown, Pa., ss Franklin st. John Murdock, pres. and mgr.; J. M. Lawyer, secy.; J. M. Murdock, treas. Cap. stk. \$20,000. Bare Rock, sandstone. Open pit, 30,000 tons, steam.	
Wrightsville	York Ry. 36d.	Kerr Bros. Cap. \$20,000. Limestone. Open pit, 30,000 tons, steam, limekilns, 30,000 tons.	
Wyandising	Bradford (P. O. Lime Hill) Ry. Hornets Ferry 233.	D. V. & L. W. Caswell, Lime Hill, Pa. Flag and curbstone. Open pit, hand.	

SEE ALSO SUPPLEMENTARY LIST

RHODE ISLAND

COAL BITUMINOUS

TOWNS AND COUNTY.	LOCATION OF MINE OR QUARRY. RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
Valley Falls	Providence Ry. 30d, 31d.	Blackstone Coal Mining Co., H. Clark, pres.; John F. Clark, secy.; Edmund Clark, treas. Cap. stk. \$20,000. Blackstone. Shaft, 600 tons, steam.	

STONE, MARBLE, GRANITE AND ONYX

TOWNS AND COUNTY.	LOCATION OF MINE OR QUARRY. RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
Burrville	Providence (P. O. Mapleville) Ry. Oakland 34d.	Oakland Granite Co., Providence, R. I., 18 Exchange pl. H. S. Tall, mgr. Cap. stk. \$20,000. Oakland, granite. Open pit, 25,000 tons, steam, horse and hand. Paul Brodie, supt.	
Crompton	Kent Ry. Centerville 243	Joseph M. Farbox, East Greenwich, R. I. Cap. \$15,000. Farbox, granite. 200 tons, hand.	
Johnston	Providence (P. O. Centerville) Ry. 34d	F. H. Angell, local. Granite. Open pit, horse and hand.	
"	"	R. W. Harris, local. Cap. \$2,000. Granite. Open pit, 500 tons, steam.	
Newport	Newport Ry. 1st, 2d, 3d	A. F. Anthony, Coggeshall av. Cap. \$2,000. Anthony's. Open pit, 5,000 tons, hand, stone mill.	
"	"	Joseph F. Cotton, local, 20 Thames st. Granite. Open pit, 9,000 tons, steam. James A. Austin, supt.	
Niantic	Washington Ry. Westerly 50s	A. G. Crumb & Sons. Cap. \$25,000. Granite. Open pit, 2,000 tons, steam. E. A. Crumb, supt.	
North Kingston	Washington P. O. & Ry. Wickford 199	Onyx Granite Co., Wickford, R. I. Cap. stk. \$200. Onyx's, granite. Slope, 2,000 tons, horse and hand.	
Smithfield	Providence Ry. 34d.	John W. Mathewson & Son, Greenville, R. I. Clarence H. Mathewson, mgr. and supt. Cap. \$8,000. Waterman Ledge, granite. Open pit, 2,000 tons, steam.	
Westerly	Washington Ry. 50s.	Caddell & Carney, 17 Dixon st. Cap. \$2,000. Caddell and Carney, granite. Open pit, 2,000 tons, horse.	
"	"	John E. Collins. Cap. \$10,000. Cormorant Hill, granite. Open pit, steam. Adam B. Archer, supt.	
"	"	Murray, Archie & Co., George Thackeray, pres.; Jas. C. Archer, secy.; Wm. C. Archer, treas.; John Murray, mgr. and supt. Cap. stk. \$10,000. Granite, 5,000 tons, steam.	
"	"	New England Granite Works, Hartford, Conn., 650 Main st. James G. Patterson, pres. and treas.; W. A. Wightman, secy.; James Gourley, mgr. and supt. Cap. stk. \$250,000. Rhode Island, granite. Open pit and slope, 15,845 tons, steam, mill.	

SEE ALSO SUPPLEMENTARY LIST

SOUTH CAROLINA

BARYTES

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT	
TOWN	AND	COUNTY		
Blacksburg		York	Blacksburg Mining & Milling Co., J. W. Bettin, pres., and mgr.; John T. Jones, secy.; Thos. B. Gantier, treas. Cap. stk. \$50,000. Westmoreland. Open pit, 10,000 tons, hand. H. C. Wilkins, supt.	
"		"	Blacksburg Mining & Milling Co., J. W. Bettin, pres.; John T. Jones, secy.; Thos. B. Gantier, treas.; J. D. Bettin, mgr. Cap. stk. \$50,000. Kings Creek. Open pit and tunnel, 15,000 tons; water. Jacob Johnson, supt.	

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT	
TOWN	AND	COUNTY		
Golden Springs	Union		Golden Gate Mining Co., Spartanburg, S. C. E. N. Higley, pres., mgr. and supt.; R. A. Oliphant, secy.; Andrew Thome, treas. Cap. stk. \$100,000. Golden Gate, gold. Placer; hydraulic and steam.	
"	"	"	Thompson Gold Mining Co., Spartanburg, S. C. William Fowler, pres.; L. C. Cannon, secy. and treas.; Edward McDowell, mgr. and supt. Cap. stk. \$100,000. Thompson, gold. Shafts and open pits, 9,000 tons; tree, steam, 10 stamps.	
Haile-Gold Mine	Lancaster		Haile Gold Mine Co., New York, N. Y., 32 Burling slip. Geo. H. Sexley, pres.; Alfred F. Cross, treas.; A. Thies, mgr. and supt. Haile, gold. Shafts, 20,000 tons; tree and refractory; steam; 60 stamps.	
Willie	Spartanburg		Wolfe & Tyger Mining Co. of South Carolina. L. W. Jordan, pres. and mgr.; H. K. Sullivan, secy. and treas. Cap. stk. \$300,000. Gold. Shafts and placer, tree and refractory; steam and water; 10 stamps developing. John T. Whitener, supt.	

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT	
TOWN	AND	COUNTY		
Yorkville		York	Nimble Mount Acid & Mining Co. Major Jas. F. Hart, pres.; A. E. Wemple, secy. and treas.; J. G. McNulty, mgr. and supt. Cap. stk. \$800,000. Iron. Slope, shaft and tunnel, 45,000 tons; steam.	

KAOLIN

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT	
TOWN	AND	COUNTY		
Lathley		Aiken	T. G. Lathat Kaolin Co. R. H. Walker, pres.; W. J. Oliver, secy. and mgr.; W. W. Woodsey, treas. Cap. stk. \$20,000. Open pit, 5,000 tons; horse	

MICA

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT	
TOWN	AND	COUNTY		
Pickens	Pickens		J. E. Hagood. Cap. \$100,000. Polly Blackstone, mica and asbestos	
"	Lansley 622	"	J. K. Kirksey. Mica	

PHOSPHATE

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	COUNTY.		
Ashley Phosphate Ry. 690.	Berkeley	Wayne & Von Kolnitz, Charleston, S. C., 147 E. Bay St. George F. von Kolnitz, mgr. and supt. Cap. \$55,000. Talhoffer. 15,000 tons, steam and hand.	
Beaufort Ry. 280.	Beaufort	Farmers Mining Co., Charleston, S. C., 17 Broad st. Paul S. Felder, pres., E. F. Witsell, secy., C. C. Pinckney jr., treas.; A. F. Felder jr., mgr. and supt. Cap. stk. \$70,000. Farmers. 40,000 tons, steam; mill, 70,000 tons.	
Charleston Ry. 31, 620.	Charleston	Ashley Phosphate Co., F. L. Frost, pres., J. P. De Saussure, secy. and treas., J. B. Davis, mgr. and supt. Cap. stk. \$108,000. Ashley. Shaft and dredge, 10,000 tons; hand and steam; mill, 2,000 tons.	
"	"	T. D. Dotterer, 432 Meeting st. Cap. \$25,000. Dotterer. 5,000 tons, steam.	
"	"	Mead Phosphate Co., P. O. Box 125. Thomas Royle, pres., T. W. Webb, secy., T. R. Webb, treas. and mgr. Cap. stk. \$200,000. Rock. Open pit, 30,000 tons, steam; mills, 20,000 tons.	
Coosaw Ry. Bull River 31.	Beaufort	St. Helena Phosphate Co., Boston, Mass., care of Kidder, Peabody & Co., 22 Broad st. W. E. Stowe, pres., F. H. Armstrong, treas., George W. Roberts, mgr. and supt. Cap. stk. \$800,000. Charles Island, rock. Open pit, 30,000 tons, steam, mill, 30,000 tons.	
Magnolia (P. O. Ten Mile Hills) Ry. 600.	Berkeley	Magnolia Mining Co., Charleston, S. C., Broad st. C. C. Pinckney, pres., E. T. Witsell, secy.; R. B. Cuthbert, mgr. Cap. stk. \$200,000. Rock. Open pit, 60,000 tons, hand.	
St. Andrews Parish P. O. & Ry. Charleston 125, 524, 690, 31, 16 m.	Berkeley	Chas. H. Drayton, Charleston, S. C., 25 E. Battery. Drayton Hall, rock. 12,000 tons, steam and hand. J. G. Wilkinson, supt.	
Sheldon Ry. 280.	Beaufort	Bull River Phosphate Co., Ltd., London, Eng., 21 Mining lane, E. C. A. G. Nichols, mgr. and supt. Williams Island, rock. Open pit, mill.	
Stono Ry. Charleston Jn. 123	Berkeley	Bolton Mining Co., Charleston, S. C., 2 Broad street. David Roberts, pres., Kirby S. Tupper, secy., treas. and mgr. Cap. stk. \$100,000. Bolton, rock. Open pit, 30,000 tons, steam and hand, mill, 30,000 tons. S. C. Brown, supt.	
"	"	Wm. L. Bradley, Boston, Mass., 27 Kilby st. Bolow, rock. Open pit, 75,000 tons, hand and steam. Geo. S. Goff, supt.	
"	"	St. Andrews Phosphate Mining & Milling Co., Charleston, S. C., F. G. Latham, pres., E. C. Williams jr., secy. and treas., J. B. Goff, mgr. Cap. stk. \$250,000. St. Andrews, rock. Open pit, 35,000 tons, steam.	

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	COUNTY		
Columbia Ry. 622, 688, 690, 817.	Richland	Stewart Stone Co., George A. Shields, pres., A. R. Stewart, secy., treas. and mgr. Cap. stk. \$100,000. Granite. Shop and open pit, 20,000 tons, steam, mill.	
Newberry Ry. 622, 620.	Newberry	Leavell & Speers local. Granite. Open pit, hand.	
Rockton Ry. 622.	Fairfield	Winnaboto Granite Co., Charleston, S. C., 70 Broad st. James F. Redding, pres., Leon C. Pettall, secy. and treas., A. W. St. Amant, mgr. and supt. Cap. stk. \$40,000. Winnaboto, granite. 15,000 tons, steam.	

SEE ALSO SUPPLEMENTARY LIST

SOUTH DAKOTA

FIRE CLAY

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.
TOWN AND COUNTY.	
Rapid City Ry., 274.	Pennington Charles Marshall. Cap. \$15,000. Open pit, steam.

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Bald Mtn. Mines, Lawrence P. O. and Ry. Dead- wood 208, ss, 274.	Bald Mountain Consolidated Milling Co. W. E. Hutton, prest. and mgr.; O. V. Pryce, secy.; W. F. Smith, treas. Cap. stk. \$300,000. Annie, Josie, Katie, Bonner, gold. Shaft, 15,000 tons; refractory; steam; mill. Oscar Waller, supt.
Beat Gulch Lawrence Ry., Deadwood ss.	W. A. Rinehart and others. Inter Ocean, gold and tin. Shaft, open pit, free, refractory.
Carbonate Lawrence Ry., Deadwood 208, ss, 274.	Iron Hill Mining Co. R. W. Cooper, prest., mgr. and supt. John Baggaley, secy.; L. W. Valentine, treas. Cap. stk. \$250,000. Fraction, Blue Bird and 6 others. Shaft, tunnel; refractory, free; steam; mill, 20 stamps.
Central City Lawrence Ry., 274	Deadwood-Terra Mining Co., James B. Haggin, treas.; T. J. Grier, mgr. Cap. stk. \$200,000. Deadwood-Terra, gold. Shaft, tunnel, 400,000 tons, free; steam, 200 stamps. Richard Blackstone, supt.
" "	Monitor Mining Co., Deadwood, S. Dak. Daniel McLaughlin, prest.; W. L. McLaughlin, secy. and treas.; George Cassels, mgr. and supt. Cap. stk. \$250,000. Monitor, Blaine, Reno and 7 others, gold. Tunnel, 1,000 tons; free; steam, 25 stamps.
" "	Scotia Mining Co., George Cassels, prest., W. L. McLaughlin, secy. and treas.; John Cassels, mgr. and supt. Scotia, Flora Belle, gold. Tunnel, 500 tons; free.
Custer Ry., ss	Custer Brownlee & Booth. Sunrise, Young Bill, gold. Open pit, shaft; refractory, hand. James Brownlee, supt.
" "	H. G. Butterfield. Bonanza, Sentinel, gold. Shaft (developing).
" "	Grand Junction Mining & Milling Co., St. Louis, Mo. Josiah Alkire, prest.; Fred Belmess, secy. and treas.; James Morrissey, mgr. Cap. stk. \$1,000,000. Grand Junction, gold. Shaft, tunnel, 24,000 tons; free, refractory; steam, 10 stamps. C. W. Robbins, supt.
" "	Wm. Neville. Scotland, gold. Shaft, tunnel. A. Smith, supt.
" "	H. N. Ross. Old Bill, gold. Shaft, refractory, hand.
" "	Thomas Irving Wheeler. Neptune, gold. Tunnel; refractory, hand.
Deadwood Lawrence Ry., ss, 208, 274.	Carthage Silver Mining Co. Robert Graham, prest.; A. J. Plovman, secy. and treas.; S. P. Roman, mgr. and supt. Cap. stk. \$300,000. Boston, Carthage, gold and silver. Shaft, refractory, steam.
" "	Florence Mining Co. J. W. McDonald, prest.; A. R. Dawson, secy. and treas.; H. B. Young, gen. mgr. Cap. stk. \$250,000. Florence, gold. Tunnel, 3,000 tons, refractory. Richard W. Richards, supt.
" "	Hardin-Baker Gold Mining Co., Milwaukee, Wis., 345 E. Water St. Isaac D. Adler, prest.; Eugene A. Friend, secy.; Jonas Cohen, treas. Cap. stk. \$500,000. Hardin-Baker, gold. Shaft, free; steam (developing). A. M. Harding, supt.
" "	Jefferson Consolidated Silver Mining Co. C. W. Carpenter, prest.; Wm. Sellie, secy., treas. and mgr. Cap. stk. \$250,000. Hercules, May Queen, gold, silver. Shaft, tunnel; refractory.
" "	New Lapita Mining Co. C. W. Carpenter, prest.; E. Vanicise, secy.; Wm. Sellie, treas. Cap. stk. \$250,000. Lapita, Cashier, gold and silver. Shaft, tunnel, free, refractory.
" "	Portland Consolidated Mining Co., Clinton, Iowa. George M. Curtis, prest.; C. E. Webb, secy.; W. D. Thompson, treas.; W. D. Ford, mgr. and supt. Cap. stk. \$100,000. Portland, gold and silver. Tunnel, refractory (developing).
" "	Ross-Hamblin Mining Co. S. P. Romans, prest., mgr. and supt.; A. J. Plovman, secy. and treas. Cap. stk. \$250,000. Hamblin, Roanoke, gold, silver. Tunnel, 800 tons, refractory, steam.
" "	Ruby-Wilks Mining Co. M. H. Lyon, prest.; F. E. Ickes, secy., treas. and mgr. Cap. stk. \$1,250,000. Ruby-Wilks, gold. Open cut, tunnel, shaft, 4,500 tons, refractory, steam, chlorination process. Richard Richards, supt.
" Ry., Portland ss.	Shimbering Bonanza Mining Co. Abram Kelder, prest.; A. R. Z. Dawson, secy.; Frank E. Ickes, treas.; Abram Kelder, mgr. and supt. Cap. stk. \$250,000. Shimbering Bonanza. Shaft, open cut, refractory.
Galeton Lawrence Ry., Whitewood 274	Bulfinch Mining Co. S. A. Flower, prest., treas., mgr. and supt., John Baggaley, secy. Cap. stk. \$1,250,000. Bay State, silver. Tunnel, shaft, refractory.
" "	Coletta Group. C. B. Harris, mgr. Coletta, gold, silver. Tunnel, 3,000 tons, horse.
" "	Conzett & Bullock. Emma, silver and lead. Tunnel, shaft, 100 tons, refractory. James Conzett, supt.
" "	Cora Mining Co. R. G. Phillips, prest.; H. Fairbanks, secy.; C. G. Fargo, treas.; W. Groshong, mgr. Cap. stk. \$2,500,000. Cora, gold, silver and lead. Tunnel, 1,000 tons, horse.
" "	W. V. Doyle and others. Union Hill, gold, silver. Shaft, tunnel, open cut, free, refractory, horse (developing). W. M. Fagan, supt.
" "	Gerken & Lynn. Cap. \$50,000. Ontario, Wanda. Tunnel, 400 tons, refractory, hand. John Gerken, supt.

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAME OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	COUNTY		
Galena,	Lawrence	Henry Mayors. Captain Pratt, silver, lead. Tunnel, 365 tons, free.	
"	(Continued.)		
"	"	R. B. Hayes Mining Co., J. Donovan, prest. and mgr., S. Moll, secy., P. E. Sparks, treas. Cap. stk. \$250,000. R. B. Hayes, gold, silver, lead. 2,000 tons, horse.	
"	"	Washington Consolidated Gold & Silver Mining Co., John J. Schlawitz, prest., mgr. and supt., William McLaughlin, secy.; J. L. Follett, treas. Cap. stk. \$200,000. Gold, silver. Tunnel, 1,000 tons, retractor., water.	
Harney	Pennington	Myron Willsie & Co., Rapid City, S. Dak. C. J. Wheelock, mgr. Willsie, silver, copper. Horse. Myron Willsie, supt.	
(P. O. Elita Mine) Ry.			
Hermosa 274.			
Hayward	Pennington	Hayward Group Silver Mining Co., C. J. Patton, prest., A. C. Walker, secy. and treas., John Monday, mgr. and supt. Cap. stk. \$125,000. Lead, gold, silver, lead. Shaft, tunnel, 500 tons, retractor., hand.	
Ry. Hermosa 274 (9 miles.)			
Hermosa	Custer	J. R. Bohler. North Star, gold, silver, lead. Shaft, hand.	
Ry. 274.			
"	"	Spokane Mining Co., J. N. Wright, prest. and mgr., M. R. Maxson, secy. and treas. Cap. \$80,000. Spokane, silver, lead. Shaft, 500 tons, hand. J. N. Wright, supt.	
Hill City	Pennington	McClulloch & Stevens. Swan Lode, gold. Slope, free, water. G. W. McClulloch, supt.	
Ry. 88.			
Keystone	Pennington	Reed, Franklin & Blair. Keystone Lode, gold, silver. Tunnel, shaft, free, retractor., hand. A. J. Simmons, supt.	
(P. O. Elita Mine) Ry.			
Hermosa 274.			
Lead	Lawrence	Big Missouri Mining Co., Chicago, Ill., 14 Tribune Bldg. Myron F. Tyler, prest.; Jabez B. Stubbs, secy., M. J. Luther, treas., M. A. Delano, mgr. Cap. stk. \$500,000. Big Missouri. Shaft, 75,000 tons, free; steam, 60 stamps. James H. Honey, supt.	
Ry. 64, 208.			
"	"	Collins & O'Leary. Lackawanna, gold, silver. Shaft, open cut, 200 tons; retractor., steam. James A. Collins, supt.	
"	"	Custer & Mand Mining Co., Chicago, Ill., Room 14 Tribune Bldg. M. J. Luther, prest., M. A. Delano, secy. and treas. Cap. stk. \$250,000. Developing.	
"	"	Florence Gold & Silver Mining Co., Deadwood, S. Dak. Charles Walter, prest., A. J. Maltreget, secy., B. E. Ankeny, treas., P. L. Gibbs, mgr. and supt. Florence Group. Shaft, tunnel, retractor., steam.	
"	"	Hawk Eye Gold Mining Co., Des Moines, Iowa, 817 Walker st. Geo. Ranselbach, prest., M. J. Hunter, secy., Wm. R. Ankeny, treas., David Hunter, mgr. and supt. Cap. stk. \$2,500,000. St. James, Willie and others. Shaft and tunnel, free, steam, 40 stamps.	
"	"	Lead Placer Mining Co., J. M. Jackson, prest., J. B. Baker, secy., treas. and supt. Wm. Larimer, treas. Placer, developing.	
"	"	Welcome Mining Co., Charles Walter, prest. and mgr., A. J. Maltreget, secy. and treas. Welcome, gold, silver. Shaft, tunnel, retractor., steam, elaboration process. N. Scheier, supt.	
Perry	Lawrence	Convention Gold Mining Co., Deadwood, S. Dak. J. T. Harrington, prest., James Frawly, secy., Henry Frawly, treas., Daniel Miles, mgr. and supt. Convention. Shaft, tunnel, free, hand.	
Ry. 64			
"	"	Wilson M. Merritt. Advance, Single Tax, gold, silver and copper. Shaft, tunnel, free, retractor., hand.	
Rochford	Pennington	Minnesota Consolidated Mining Co., Davenport, Ia. A. Kimball, prest., F. H. Griggs, secy. and treas., C. H. Enos, mgr. and supt. Cap. stk. \$10,000. Minnesota and others. Free, water, developing.	
Ry. 88.			
Spokane	Custer	Buckingham & Miller. Cap. \$100,000. Lucky Friend, gold, silver. Shaft, 200 tons, retractor., hand. John L. Buckingham, supt.	
Ry. Hermosa 274 (10 m.)			
"	"	Maxson & Patton. Cap. \$100,000. Banker, silver, gold. Shaft, 10 tons, hand. N. Aendes, supt.	
"	"	W. L. Pike and others. Cheyenne, Lead, silver. Shaft, retractor., W. L. Pike, supt.	
"	"	Spokane Mining Co., M. R. Maxson, secy. and treas., G. W. Cronwell, secy. and treas. Cap. stk. \$20,000. Spokane, silver, gold, lead. Shaft, 200 tons, retractor., horse. F. M. Wall, supt.	

GYPSUM

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	COUNTY		
Rapid City	Pennington	Midland Mining & Developing Co., John J. Rochford, prest. and mgr., Edward M. Reeves, secy., William W. Hinton, treas. Cap. stk. \$500,000. Open pit, mill, developing. Samuel Scott, supt.	
Ry. 274.			
Sturgis	Meade	Black Hills Plaster Co., Henry A. Carpenter, prest., G. W. Cronwell, secy. and treas. Cap. stk. \$20,000. Open pit, 3,000 tons, steam.	
Ry. 274			

MICA

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Custer Ry. ss.	Custer	Galesburg Mica Mining Co., Galesburg, Ill., 321 E. Main st. A. P. Charles, pres.; C. A. White, secy. and treas.; R. H. Picheur, mgr. and supt. Cap. stk. \$150,000. Evelyn. Shaft, tunnel; hand (developing).		
"	"	Wm. C. Walsh, Chicago, Ill., 54 and 56 Sherman st. (Chmex. Shaft, tunnel; horse.		
Fringie (P. O. Hot Spgs. Ry. ss.)	Custer	Consolidated Mica Co., J. B. Dickorr, pres.; J. F. Parks, secy.; Charles G. Fargo, treas.; M. S. Thomas, mgr. and supt. Cap. stk. \$300,000. Sun Dog. Shaft, hand.		
Rapid City Ry. 274.	Pennington	L. L. Davis. Cap. \$1,000. Newton, gold, mica and tin. Open cut; hand (developing).		

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF QUARRY, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Deadwood Ry. ss, 274, 298.	Lawrence	Ball White Sandstone Co., Edward Ball, propr. Cap. \$25,000. Sandstone. Open pit, 1,500 tons; hand.		
Dell Rapids Ry. 141.	Minnehaha	Dell Rapids Granite Co., Ritchie Simpson, pres.; W. S. Mitchell, secy. and treas.; John McDonald, v. pres. Cap. stk. \$90,000. Jasper. Open pit.		
East Sioux Falls Ry. 319.	Minnehaha	East Sioux Falls Granite Co., G. H. Perry, mgr. Cap. \$200,000. East Sioux Falls, granite, sandstone. Open pit, 15,000 tons; steam mill. James McGrath, supt.		
Rowena Ry. 319.	Minnehaha	Minnehaha Granite Co., Chicago, Ill., 84 La Salle st. L. A. Marshall, pres.; Fred Stafford, secy.; W. B. Bolton, treas. Cap. stk. \$50,000. Quartzite, granite. Open pit, slope, 15,000 tons; steam. Thomas Vernon, supt.		

TIN

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Beat Gulch Ry., Deadwood ss, 274.	Lawrence	Janssny & St. John. George and 5 others. Shaft; horse, hand (developing).		
"	"	C. Miller. Boston, Commercial Grace, Dakota. Tunnel, shaft (developing).		
"	"	Nigger Hill Tin Mining Co., Charles J. Finch, pres., mgr. and supt.; Henry Schmitz, secy. and treas. Cap. stk. \$1,250,000. Nigger Hill. Shaft, hand.		
Custer Ry. ss.	Custer	Dolphin Mining & Milling Co., Col. John Tompahan, pres.; O. D. Moore, secy. Capital stk. \$4,000,000. Dolphin, Tompeh. Shaft, tunnel, 1,000 tons; free; horse, hand. W. P. Moore, supt.		
"	"	Thomas J. Wheeler. Haven. Shaft; hand.		
Etta Mine Ry. Hermosa 274.	Pennington	Everly & Price. Good Luck. Open cut; hand. Milton Everly, supt.		
"	"	Rapid City Land & Improvement Co., Rapid City, S. Dak. E. B. Ryington, pres.; R. J. Hill, secy.; H. S. Hall, treas.; Samuel Scott, mgr. Cap. stk. \$6,000,000. Etta, Margaret. Shaft, open cut, 30,000 tons; hand. Lewis Everly, supt.		
Glendale (P. O. Etta Mine) Ry. Hermosa 274	Pennington	Glendale Tin Co., Chicago, Ill., 41 Portland Block. Fred W. Gardner, pres.; Geo. W. Cope, secy. and treas.; J. K. Haines, mgr. Cap. stk. \$2,500,000. Glendale. Shaft, tunnel, water, steam, concentrating mill (developing). R. M. Mitchell, supt.		
Harney City (P. O. Etta Mine) Ry. Hermosa 274.	Pennington	Black Hills Tin & Metal Co., A. J. Kohler, pres.; Frank O. Fetton, secy.; N. Hunsaker, treas.; H. H. Tames, mgr. and supt. Cap. stk. \$1,000,000. Harney City. Tunnel, shaft, horse, hand (developing).		
"	"	Wheelock & Everly. Olive. Shaft, tunnel, horse. C. J. Wheelock, supt.		
Hill City Ry. ss	Pennington	Harney Peak Tin Mining & Milling Co., New York City, 44 and 46 Wall st. Samuel Untermyer, pres.; Charles D. Pescher, secy.; Lewis May, treas. Cap. stk. \$5,000,000. Shaft; steam. J. S. Childs, supt.		
"	"	Frank Hebert. Tin Queen. Shaft, open pit (developing).		
"	"	James Jacoby & Co. Rose, Big Mountain, tin, lead, copper (developing).		
"	"	Joseph McClure. Western Bell and 3 others.		
"	"	Rapid City Land & Improvement Co., Rapid City, S. Dak. E. B. Ryington, pres.; R. J. Hill, secy.; H. S. Hall, treas.; Samuel Scott, mgr. Cap. stk. \$6,000,000. First Find. Open cut, hand. Samuel Scott, supt.		
"	"	C. Von Worchmann & Bartley Bros. Dogtown Group and 3 others. Shaft, tunnel; hand (developing).		
Spokane Ry. Hermosa 274 (10 miles).	Custer	L. Scurlack & Co., Coquille, Wash. Cap. \$1,500. Open pit, 50 tons; hand.		
Whitewood Ry. 274.	Lawrence	Charles J. Finch. May Queen and 4 others. Shaft, open cut, 400 tons; hand.		
"	"	Finch & Gaston. Buckeye. Shaft, tunnel, 1,200 tons; hand. Charles J. Finch, supt.		

SEE ALSO SUPPLEMENTARY LIST

TENNESSEE

COAL-BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Bon Air Coal Mine	White	Ry. 482.	Bon Air Coal & Coke Co., J. M. Overton, pres't, treas. and mgr.; J. L. Dittrell, secy., Cap. stk. \$50,000. Bon Air. Tunnel, 100,000 tons; steam.	Wm. Harvey, supt.
Carville	Campbell	Ry. 240.	J. C. Collins, Hill st. Cap. \$500. Citizen's. Tunnel, 40,000 tons; hand.	
Coal Creek	Anderson	Ry. 240.	Black Diamond Coal Co., Knoxville, Tenn. T. H. Heald, pres't. T. F. Wiley, secy. and treas.; J. M. Andrews, mgr. and supt. Cap. stk. \$150,000. Black Diamond, Empire and Shamrock. Slope, 252,000 tons; steam.	
"	"	"	Coal Creek Coal Co., Knoxville, Tenn., of W. Church st. F. C. Camp, pres't. D. R. Bean, secy. and treas. Cap. stk. \$200,000. Frater'sville, Hustle. Tunnel, 250,000 tons; steam and horse. A. H. Bowling, supt.	
Crossville	Cumberland	Ry. Rockwood 636.	Phillipsburg Land & Coal Co., local; Noble Phillips, pres't and mgr.; R. W. Shannon, secy.; John J. White, treas. Cap. stk. \$60,000. Albany, Open, hand.	
Elk Valley	Campbell	Ry. 612, 240.	Elk Valley Coal & Iron Co., Knoxville, Tenn. Judge M. P. Jorjagin, pres't.; W. T. Russell, secy. and treas.; C. R. Baird, mgr. and supt. Cap. stk. \$200,000. Tunnel, horse; developing.	
Evensville	Rhea	Ry. 612.	J. T. Darwin, Cap. \$7,500. Darwin. Slope and tunnel, 10,000 tons; water.	
Frozen Head	Morgan	(P. O. Coalfield) Ry. Oliver Springs 787.	East Tennessee Mining Co., Harrison, Tenn. J. D. Roberts, pres't. J. Michell, secy.; Fred Gates, treas.; Cap. stk. \$200,000. Frozen Head. Tunnel and drift, compressed air and electricity, washer, 300 coke ovens, 120,000 tons; developing. L. F. Bryant, supt.	
Harriman	Roane	Ry. 612.	East Tennessee Mining Co., J. D. Roberts, pres't. Jos. Michell, secy.; Fred Gates, treas.; L. F. Bryant, mgr. and supt. Cap. stk. \$100,000. Bird. Tunnel and drift, 20,000 tons; steam, 6 coke ovens, 3,500 tons.	
Hartman	Chaborn	Ry. Middleboro, Ky., 371, 408.	Reliance Coal & Coke Co., T. A. Sammet, pres't. Philip Swab, secy. and treas.; Cap. stk. \$15,000. Reliance, 20,000 tons; horse. John Kent, supt.	
Knoxville	Knox	Ry. 240, 372, 371, 130.	Black Diamond Coal Co., T. H. Heald, pres't. T. F. Wiley, secy.; W. F. Searle, treas.; J. M. Andrews, mgr. and supt. Cap. stk. \$150,000. Black Diamond. Slope, 300,000 tons; steam.	
Needmore	Marion	(P. O. South Pittsburg) Ry. 408.	B. F. Patton, Cap. stock. Needmore. Tunnel, 100,000 tons; hand.	
Newcomb	Campbell	Ry. 240.	Standard Coal & Coke Co., J. L. Broese, pres't. Russell A. Chapp, secy.; treas. and mgr. Cap. stk. \$200,000. Tunnel, 5,000 tons; horse. J. C. Brooks, supt.	
Rockwood	Roane	Ry. 612, 636.	Phillipsburg Land & Coal Co., local; Crossville, Tenn. Noble Phillips, pres't and mgr.; R. W. Shannon, secy.; John J. White, treas. Cap. stk. \$60,000. Rockwood, Open, hand.	
Sale Creek	Hamilton	Ry. 612.	Sale Creek Coal & Coke Co., Chattanooga, Tenn., cor. Ninth and Market sts. S. S. Simpson, pres't. Wm. Griffiths, secy.; A. Simpson, treas.; D. R. Griffiths, mgr. Cap. stk. \$200,000. Sale Creek. Tunnel, 30,000 tons; horse, washer, 65 coke ovens. W. R. Floyd, supt.	
Soddy	Hamilton	Ry. Rutherford 612.	Soddy Coal, Iron & Railway Co., Chattanooga, Tenn., cor. W. Ninth and Broad sts. M. H. Chitt, pres't; treas. and mgr. Cap. stk. \$200,000. Soddy. Tunnel, 100,000 tons; horse and steam; washer, 150 coke ovens. A. Lloyd, supt.	
South Pittsburg	Marion	Ry. 482, 716.	Houston, McDaniel & Co., Cap. \$2,000. Old Battle Creek. Tunnel, hand. P. F. Latta, supt.	
"	"	"	R. M. Payne, Cap. \$5,000. Battle Creek. Tunnel and drift, 5,000 tons; hand. James Turner, supt.	
Tracy City	Grundy	Ry. 482.	Tennessee Coal, Iron & Railroad Co., Nashville, Tenn. T. C. Platt, pres't. Jas. Rowton, secy. and treas.; A. M. Shook, third v. pres't, and mgr.; 2 drifts, 75,750 tons; steam and horse; washer, 300 coke ovens, 45,788 tons. R. O. Nathurst, supt.	
Whitwell	Marion	Ry. 482.	Tennessee Coal, Iron & Railroad Co., Nashville, Tenn. T. C. Platt, pres't. Jas. Rowton, secy. and treas.; A. M. Shook, third v. pres't and mgr.; 2 drifts, 214,424 tons; horse, 120 coke ovens, 45,788 tons.	
"	Chaborn	(P. O. and Ry. Middleboro, Ky. 371, 400.	Bryson Mt. Coal & Coke Co., Cumberland, Ky. T. Cockill, pres't and treas.; T. Cockill, secy. and mgr. Cap. stk. \$250,000. Bryson Mountain. Tunnel, 90,000 tons; steam and horse. T. W. Cockill, supt.	
"	"	"	Fork Ridge Coal Co., O. W. Davis jr., pres't and treas.; John Sanderson, secy. Cap. stk. \$100,000. Fork Ridge. Tunnel, 90,000 tons; steam. J. A. Jardine, supt.	
"	"	"	Mingo Mt. Coal & Coke Co., John Rafton, pres't. O. W. Davis jr., v. pres't and secy.; C. M. Woodbury, treas. Cap. stk. \$250,000. Mingo Nos. 1 and 2. Tunnel, 150,000 tons; steam; washer, 90 coke ovens, 75,000 tons. R. L. Rafton, supt.	

COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, TREATMENT, ETC. AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Ducktown	Folk	Ry. 420.	Pittsburg & Tennessee Copper Co., Pittsburg, Pa. 222 Penn. av. Hugh Ferguson, pres't. Duncan Ferry, secy. S. J. Wainwright jr., treas.; Carl Heintzel, mgr. and supt. Old Tennessee, copper. Shafts, steam.	

FIRE CLAY

TOWN AND COUNTY.	LOCATION OF MINE, OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.
Cleveland Ry. 240.	Bradley	Cleveland Fire Brick Co., J. H. Sanborn, pres. and treas.; J. C. Noel, secy. and mgr. Cap. stk. \$50,000. Open pit, 6,000 tons; steam.

GOLD AND SILVER

TOWN AND COUNTY.	LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SLAMM MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
Knoxville, Ry. 372, 371, 420.	Knox	East Tennessee & North Carolina Mining Co., 64 Gay St., Samuel Johnson, pres.; Charles S. Ashton, secy.; Wm. M. Johnson, treas.; Levi Levegood, mgr. Cap. stk. \$57,000. Trotter and Indian, gold, silver, iron, lead, copper. Shaft and tunnel; water and steam (developing). (Mine in Sevier county.)

IRON

TOWN AND COUNTY.	LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
Evansville Ry. 612.	Rhea	W. C. Gossett. Cap. \$500. Payne, red fossil. Open pit, 5,000 tons; hand; furnace.
Goodrich Ry. 482.	Hickman	Southern Iron Co., Nashville, Tenn., Union St., A. M. Shook, pres.; W. E. McNelly, secy. and treas.; Percy Warner, mgr. Cap. stk. \$3,000,000. Johnson and McNelly, black hematite. Open pit, 250 tons; steam, furnace. H. E. Williams, supt.
Hartman Ry. 240, 612, 746.	Rome	East Tennessee Mining Co., J. D. Roberts, pres.; Joseph Mitchell, secy.; Fred Gates, treas.; L. E. Bryant, mgr. and supt. Cap. stk. \$3,000,000. Waldeen Ridge, hematite. Drift, 12,000 tons; hand.
Indian Ry. 482.	Marion	Tennessee Coal, Iron & Railroad Co., Nashville, Tenn., T. C. Platt, pres.; James Bowron, secy. and treas.; A. M. Shook, third v. pres. and mgr. Red fossiliferous. 3 slopes, 117,160 tons; steam. J. Hawkins, supt.
Louise Ry. 408.	Montgomery	Gracy-Woodward Iron Co., Clarksville, Tenn., W. H. Woodward, pres.; H. G. Woodward, secy., treas., mgr. and supt. Cap. stk. \$108,000. Louise, brown hematite. Tunnel, open pit, 100,000 tons; steam and hand, furnace, 45,000 tons.
Mamie Ry. 482.	Wayne	The Southern Iron Co., Nashville, Tenn., A. M. Shook, pres.; J. A. Cooper, secy. and treas.; P. Warner, mgr. Cap. stk. \$3,000,000. Mamie, brown hematite. Open pit, 60,000 tons; steam; furnace. John W. Deter, supt.
Napier Ry. 408.	Lewis	Napier Iron Co., E. C. Lewis, pres. and mgr.; E. L. Ware, secy. and treas. Cap. stk. \$300,000. Napier, brown hematite. Open pit; steam, furnace, 18,000 tons.
Newburg Ry. Napier 408.	Lewis	Napier Iron Works Co., Nashville, Tenn., E. C. Lewis, pres. and mgr.; J. H. Eakin, secy. and treas. Cap. stk. \$3,000,000. Open pits; steam, hand; furnace.
Pinkney Ry. 408.	Lawrence	Smith & Sharpe Mining Co., Dayton, Ohio., W. W. Smith, pres.; Thomas Sharpe, secy. and treas.; John Fagan, mgr. and supt. Cap. stk. \$25,000. Pinkney, red and brown hematite. Open pit, 22,500 tons; steam, furnace, 13,500 tons.
Walker Mines, Ry. Kingston 746.	Rome	East Tennessee Mining Co., Hartman, Tenn., J. D. Roberts, pres.; Jos. Mitchell, secy.; Fred Gates, treas.; L. E. Bryant, mgr. and supt. Cap. stk. \$3,000,000. Walker, hematite. Open pit, 28,000 tons; hand and horse.

LEAD AND ZINC

TOWN AND COUNTY.	LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 200 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.
Blue Springs Ry. 240.	Bradley	Blue Springs Mining Co., Chattanooga, Tenn., 232 Richardson Block, S. W. Dyane, pres.; W. H. Bogie, secy. and treas. Cap. stk. \$50,000. Blue Springs, lead and zinc. Shaft, tunnel, 400 tons; steam, fur- nace. Paul Gass, supt.
Mossy Creek Ry. 240.	Jefferson	White Pine Zinc Co., Louisville, Ky., 33 Kenyon Bldg., Wm. L. Breytogle, pres.; B. Whitney Herr, secy. and treas.; Jas. K. Zollinger, mgr. Cap. stk. \$30,000. Sulphurets and carbonate of zinc. Open pits and shaft, steam and hand. Frank H. Breytogle, supt.
White Pine Ry. 240.	Jefferson	White Pine Zinc Co., Louisville, Ky., 33 Kenyon Bldg., Wm. L. Breytogle, pres.; B. Whitney Herr, secy. and treas.; Jas. K. Zollinger, mgr. Cap. stk. \$50,000. Sulphurets and carbonate of zinc. Shaft and open pits, steam and hand. Frank H. Breytogle, supt.

SLATE

LOCATION OF QUARRY,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.
TOWN AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF QUARRY, KIND OF SLATE, KIND OF QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS,
KIND OF POWER USED, MILLS, ETC., AND NAME OF QUARRY SUPERINTENDENT.

Bluff City Sullivan The James Slate & Mining Co., W. W. James, pres.; John R. Cunningham, secy.; D. S. Heaton, treas.
Ry. 24. Cap. stk. \$50,000. Slate and marble. Steam (developing).

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE
OR QUARRY,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.
TOWN AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF
2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERILS AND
CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

Andersonville Anderson Tennessee Onyx Co., Z. T. Allan, pres.; A. B. Jacobs, v. pres.; and secy.; S. H. Stevens, treas.; M. A.
Ry. Clinton 240. Williams, mgt. Tennessee, onyx. Open pit, developing.

Arthur Claiborne Hoffman & Malone, Middleboro, Ky., R. F. Hoffman, pres. and secy.; Thomas Malone, treas. and mgt.
Ry. 371. Cap. \$20,000. Arthur, limestone. 12,000 tons, horse and steam.

Ciswells Knox Tennessee Producers' Marble Co., Knoxville, Tenn., 31 Deaderick Block, W. H. Evans, pres.; J. J.
Ry. 240. Craig, v. pres.; John J. Craig jr., treas. and mgt.; Cap. stk. \$80,000. Ciswell, marble. Open pit,
3,000 tons; steam, horse and hand.

Chattanooga Hamilton John Troutt, 303 Pine St., Cap. \$15,000. Stone Fort, limestone. Open pit, 50,000 tons; steam. P. J.
Ry. 170, 126, 147, 280, Whitman, supt.
240, 801.

Cloyd's Creek Blount Tennessee Producers' Marble Co., Knoxville, Tenn., 31 Deaderick Block, W. H. Evans, pres.; J. J. Craig,
Ry. McGee 420. v. pres.; John J. Craig jr., treas. and mgt.; Cap. stk. \$90,000. Cloyd's Creek, marble. Open pit, 3,000
tons, horse, steam and hand.

Concord Knox Concord Quarry Co., Knoxville, Tenn., J. E. Hart, pres.; T. W. Keller, secy. and treas. Cap. stk. \$20,000.
Ry. 240. Marble.

" " Tennessee Producers' Marble Co., Knoxville, Tenn., 31 Deaderick Block, W. H. Evans, pres.; J. J.
Craig, v. pres.; John J. Craig jr., treas. and mgt.; Cap. stk. \$80,000. Concord, marble. Open pit,
3,000 tons, steam, horse and hand.

Ebenezer Knox Tennessee Producers' Marble Co., Knoxville, Tenn., 31 Deaderick Block, W. H. Evans, pres.; J. J.
Ry. 240. Craig, v. pres.; John J. Craig jr., treas. and mgt.; Cap. stk. \$80,000. Ebenezer, marble. Open pit,
3,000 tons, steam, horse and hand.

Friendsville Blount Tennessee Producers' Marble Co., Knoxville, Tenn., 31 Deaderick Block, W. H. Evans, pres.; J. J.
Ry. 420. Craig, v. pres.; John J. Craig jr., treas. and mgt.; Cap. stk. \$80,000. Friendsville, marble. Open pit,
3,000 tons, steam, horse and hand.

Graysville Hamilton John Troutt, Chattanooga, Tenn., 303 Pine St., Cap. \$15,000. Graysville, brown sandstone. Open pit,
Ry. O. and Ry. Chatto- 50,000 tons, steam. P. J. Whitman, supt.
ooga 126, 147, 170,
240, 280, 801.

Knoxville Knox W. H. Evans & Son, Baltimore, Md., Cap. stk. \$50,000. Marble. Open pits, 75,000 tons, steam mill J. F.
Ry. 240, 371, 372, 420. Willard, supt.

" " Gray Knox Marble Co., Marble. 5,000 tons.

" " Phoenix Marble Co., E. R. Swenson, pres.; John P. Bench, secy.; treas. and mgt.; Cap. stk. \$80,000.
Bench, marble. Open pit, 1,500 tons, steam, horse and hand, mills. Jas. R. Lyle, supt.

" " J. Edward Ross, Cap. \$20,000. Ed. Ross, pink and gray marble. Open pit, 2,000 tons, steam. Tom Bur-
nell, supt.

" " Tennessee Producers' Marble Co., W. H. Evans, pres.; J. J. Craig, v. pres.; John J. Craig jr., treas. and
mgt.; Cap. stk. \$80,000. Knoxville, marble. Open pit, 3,000 tons, steam, horse and hand.

Ooltewah James Thatcher Lime & Stone Works, W. O. Thatcher jr., mgt., Limestone. Open pit, 5,000 tons, hand kiln,
Ry. 240. 3,000 tons.

Philadelphia London Roschold Marble Co., Knoxville, Tenn., J. J. Hart, pres.; T. W. Keller, secy. and treas.; S. C. Burgess,
Ry. 240. mgt.; Cap. stk. \$15,000. Roschold, marble. Steam.

Powder Springs Grainger Columbia Marble Co., Columbus, Ohio, 9 S. High St., Dr. L. W. Sherwood, pres.; Hon. Philip H. Brink,
P. O. Ambro Ry. 351 col. D. D. Nicholas, mgt.; Cap. stk. \$100,000. Columbian, marble. Open
pit, 5,000 tons, steam. John Carver, supt.

Rogersville Hawkins James Cooper, Cap. \$25,000. Gem, marble. Soap and open pit, 75,000 tons, horse and hand. John
Ry. 240. Carver, supt.

" " J. L. Leroy, Cave Ridge, marble. Hand.

" " D. C. McKay, Cap. \$50,000. McKay, marble. Open pit, 1,000 tons, steam mill. John Carver, supt.

Sewanee Franklin D. E. Denney, Nashville, Tenn., con. Mulberry and Vine sts. Sewanee, sandstone. Mill.

SEE ALSO SUPPLEMENTARY LIST

TEXAS

COAL-BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Decatur Ry. 776.		Wise	Wise County Coal Co. H. H. Halsell, prest. and mgr.; Wm Rush, secy. and treas. Wise. Shaft (developing).	
Lytle Ry. 326.		Atascosa	Carl Coal Co., San Antonio, Tex., cor. Medina and Monterey sts. J. S. Carr, mgr. Lytle. Slope, 7,000 tons, steam. Domingo Bhuva, supt.	
Mudra Ry. Laredo 325, 436.		Webb	Santo Tomas Coal Co., Laredo, Tex. A. C. Hunt, prest.; Dr. A. W. Wilcox, secy. and treas. Cap. stk. \$75,000. Santo Tomas. Slope, 14,400 tons, horse. D. D. Davis, supt.	
Rock Creek Ry. 793.		Parker	Texas Coal & Fuel Co., Weatherford, Tex. L. M. Fouts, prest. and mgr.; E. R. Standish, secy. and treas. Cap. stk. \$250,000. Rock Creek. Shaft, 15,000 tons; steam. J. O. Fouts, supt.	
Rockdale Ry. 326, 648.		Milam	Rockdale Mining & Manufacturing Co., P. O. Box 25. L. Isaacs, prest.; W. B. Woody, secy. and mgr.; J. L. Lockett, treas. Cap. stk. \$80,000. Shaft, open pit, steam (developing). J. A. Touchstone, supt.	
Sierra Blanca Ry. 756, 692.		El Paso	R. C. Crawford. Fannie M. Shaft.	
Strawn Ry. 756.		Palo Pinto	Adair Coal Mining Co., Fort Worth, Tex. J. B. Adair, prest. and mgr.; R. B. Adair, secy. and treas. Cap. stk. \$250,000. Shaft; steam (developing).	

COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Hemphill Ry. 776.		Clay	Lone Star Copper Co., W. A. Dennis, prest., John McNeish, secy.; James M. Steere, treas.; Henry J. Brennon, mgr. Cap. stk. \$875,000. Carbonate, oxide. Tunnel and shaft. S. E. Ford, supt.	

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Camp Schryver P. O. and Ry. Allamogosa 756.		El Paso	Hazel Mining Co., San Antonio, Tex. Hazel, silver and copper. Shaft, 4,500 tons, refractory, steam. H. J. Clifford, mgr. and supt.	
Chico Ry. Brownwood 26, 268.		Brown	W. F. Elliott. Elliott, gold, silver. Shaft, free.	
Sierra Blanca Ry. 756, 692.		El Paso	R. C. Crawford. Caledonia, gold and silver. Tunnel; refractory.	

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Jefferson Ry. 756, 430.		Marion	Lone Star Iron Co. John H. Kruse, prest. and mgr.; Edward Atfield, secy.; Thomas T. Nelson, treas. Cap. stk. \$1,000,000. Brown hematite, fossiliferous, carbonate. Open pit, 36,000 tons, hand; furnace, capacity 18,000 tons. Thomas Traverser, supt.	
Llano Ry. Burnet 37.		Llano	Wakefield Iron & Coal Land Improvement Co., Milwaukee, Wis., 154 Second st. Ceylon E. Lyman, prest.; Vernon T. Wakefield, secy.; George M. Wakefield, treas.; James A. Wood, mgr. and supt. Cap. stk. \$5,000,000. Bader, magnetite, pyrophosphate, manganese. Shaft; steam (developing).	
Queen City Ry. 756.		Cass	Queen City Iron Co. John I. Halley, prest.; J. B. H. Janeway, secy. and mgr.; J. J. Robertson, treas. Cap. stk. \$400,000. Red and brown hematite. Open pit, furnace, 25,000 tons.	

SALT

LOCATION OF MINE OR WELL, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	TOWN	AND	COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.	
Colorado Ry. 756.			Mitchell	Lone Star Salt Co., Dallas, Tex., Byron Parsons, pres.; Fredk. R. Blount, secy. and treas. Cap. stk. \$200,000. Lone Star, Crescent, common, fine, table, solar. Well, 250,000 brls.; steam; evaporation. John Miller and A. Wilderspin, supts.	

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	TOWN	AND	COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
Fredricksburg Ry. 37.			Gillespie	Frank Teich, San Antonio, Tex., col. Arkansas and Mill sts. Cap. \$80,000. Bear Mountain, granite. Open pit, 20,000 tons, horse.	
Gordon Ry. 756.			Palo Pinto	W. M. Gibbs. Sandstone. Open pit, 19,500 tons, horse, hand.	
Granite Mountain, Burnett Ry. 37.				Frank Teich, San Antonio, Tex., col. Arkansas and Mill sts. Cap. \$80,000. Moor, granite. Open pit, 20,000 tons, horse.	
"			"	Texas Capitol Granite Co., W. H. Westfall, pres.; S. L. Norton, secy. and treas.; George W. Lauey, mgt. Cap. stk. \$1,000,000. Granite Mountain, granite. Open pit, steam, horse, hand. polishing mill.	
Santa Anna Ry. 59.			Coleman	Golden Stone Co., Cap. stk. \$10,000. Golden Stone, limestone. Soap, hand, mill, kiln, 30,000 brls. James T. Donahoe, supt.	
Santa Ry. 756.			Palo Pinto	J. W. Morris. Cap. \$25,000. Morris, sandstone. Open pit, 2,000 tons, hand, mill.	
Weatherford Ry. 26, 554, 739.			Parker	W. J. Franklin. Cohen, limestone. Open pit, horse, hand.	
"			"	J. H. Harberger. Cap. \$5,000. J. H. Harberger's, limestone. Soap, 500,000 tons. hand kiln, 50,000 tons.	
"			"	W. A. Hinton. Rock Creek, sandstone. Open pit, 6,000 tons.	

SEE ALSO SUPPLEMENTARY LIST

UTAH

ASPHALTUM

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN	AND	COUNTY.	
Clear Creek	Utah	Wasatch Asphaltum Co., Salt Lake City, Utah, 71 Culmer Block. G. F. Culmer, pres.; H. L. A. Culmer, secy. and treas. Wasatch rock asphaltum. Tunnels, 5,000 tons; steam, horse and hand; mill, 3,000 tons. St. V. Le Sneur, supt.	
(P. O. Truckee) Ry. 215.			
Duchesne	Utah	Gilson Asphaltum Co., St. Louis, Mo., Odd Fellows' Bldg. C. O. Baxter, pres.; H. E. Naffiz, secy. and treas.; E. Seaboldt, mgr. Asphaltum. Shaft, 1,500 tons; horse. Thomas Taylor, supt.	
(P. O. Fort Duchesne) Ry. Price 215.			
Pariette	Wasatch	Salt Lake Gilsonite Co., Salt Lake City, Utah, 71 Culmer Block. Geo. F. Culmer, pres.; H. L. A. Culmer, secy. and treas. Cap. \$75,000. Salt Lake Gilsonite Co.'s Group. Shaft, tunnel, slope and open pit, 2,000 tons; horse and hand. St. V. Le Sneur, supt.	
(Not a P. O.) Ry. Price 215.			

COAL—BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWN	AND	COUNTY.	
Castle Gate Ry. 239.	Emery	Pleasant Valley Coal Co., Salt Lake City, Utah. C. W. Drake, secy. and treas.; D. C. Dodge, mgr. Cap. stk. \$25,000.00. Castle Gate. Tunnel, 125,000 tons; electricity, breaker, six coke ovens, 25,000 tons. W. G. Sharp, supt.	
Coalville Ry. 776.	Summit	Chalk Creek Coal Mining Co., Salt Lake City, Utah, 225 W. South Temple St. Geo. C. Kidder, pres.; J. D. Imboe, secy.; H. P. Mason, treas.; J. H. Clark, mgr. Cap. stk. \$30,000. Chalk Creek. Shafts, steam and horse. Isaac Trega, supt.	
"	"	Home Coal Co., Salt Lake City, Utah, 22 E. First St. R. C. Chambers, pres.; F. A. Mitchell, secy. and supt. Edward Kimball, treas. Cap. stk. \$25,000. Wasatch. Shaft and tunnel, 37,412 tons; steam.	
Grass Creek Jct. (P. O. Coalville) Ry. 776.	Summit	James Robinson & Co. (lessors), Coalville, Utah. James Robinson, mgr. Old Church. Tunnel; horse.	
Seaford Ry. 215.	Emery	Pleasant Valley Coal Co., Salt Lake City, Utah. C. W. Drake, secy. and treas.; D. C. Dodge, mgr. Cap. stk. \$25,000.00. Winter Quarters. Tunnel, 125,000 tons; electricity, breaker. W. G. Sharp, supt.	
"	"	Union Pacific Coal Co., Omaha, Neb. F. D. Brown, treas.; G. W. McGeath, gen. supt. Pleasant Valley. Tunnel, 30,000 tons; horse. W. G. Sharp, supt.	

COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN	AND	COUNTY.	
St. George	Washington	Divide Mining & Smelting Co., John Fyhm, pres.; Seth A. Fyhm, secy.; Robert C. Lund, mgr. Cap. stk. \$125,000. Apex, Morning Star and others. Tunnel, 2,000 tons. S. R. Calloway, supt.	
Ry. Milford, 776.			

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Alpine City	Utah	Nettie Mining Co., J. G. Wilkin, pres.; W. Healy, secy.; H. Healy, treas. Cap. stk. \$30,000. Nettie, silver and lead. Shaft, 20 tons; refractory, hand. W. T. Brown, supt.		
Ry. American Fork 215, 776.				
"	"	J. G. Wilkin, Hiram & William Healy. Jeannette, lead and silver. Slope; hand (developing).		
Alta	Salt Lake	Emma Mining Co., Ltd., London, Eng., 16 George St., Mansion House, E. C. F. W. Snell, pres.; R. K. Hobbs, secy.; H. C. Woodron, mgr. Cap. stk. \$25,000. Emma, silver, lead. Tunnel and shaft, 5,000 tons. Steam and compressed air. W. H. Timbly, supt.		
Ry. 215.				
"	"	Montezuma Silver Mining Co., Detroit, Mich., 210 Larned St. W. John Belknap, pres.; David R. Pierce, secy. and treas. Cap. stk. \$300,000. Montezuma, Savage, Hiawatha, Last Chance, silver and lead. Tunnels and shafts, 300 tons; free, hand. F. H. W. Buzzo, supt.		
"	"	C. M. Siedels & James R. Tamsch. Kenosha, gold, silver and lead. Tunnel, shaft and slope, 5,000 tons; refractory, horse and hand. Jas. R. Tamsch, supt.		
American Fork	Utah	E. H. Bailey & Co. Cap. \$7,000. Lone Pine, gold, silver and lead. Tunnel and slope, free; hand. E. H. Bailey, supt.		
Ry. 215, 776.				
"	"	J. Preston, J. Chapman & L. Kulowski. Emma, silver and lead. Shaft, 25 tons; refractory, horse. L. Kulowski, supt.		

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
American Fork		Utah	Treasure Consolidated Mining Co., J. L. Chapman, pres.; W. H. Chapman, secy. and treas.; John Chadwick, mgr. and supt., Cap. stk. \$1,000,000. Treasure, gold, silver and lead. Tunnel and slopes, 5 tons; refractory; hand.	
Bingham Canyon Salt Lake Ry. 215.		"	J. R. Cornwell. Cap. \$100,000. Unlimited. Logan, Crown, Silver Shield and others, gold and silver. Shaft, tunnel, slope and open pit, 500 tons, hand.	
"		"	Highland Mining Co., Salt Lake City, Utah, 29 S. Main st. Frank Hoffman, mgr. Highland and others, gold, silver and lead. Shaft, 10,000 tons, steam.	
"		"	James Judd sr. Agnostic, gold and silver. Tunnel, free; hand (developing). William E. Judd, supt.	
"	14 miles.	"	The Taxington Mining Co., Salt Lake City, Utah, Rooms 19 and 20 Commerce Bldg., Paris, France, 24 Rue de Peletier, Eugene Ratnevsky, pres.; G. Lavagnino, mgr. and supt., Cap. stk. \$2,000,000. Old Telegraph, gold, silver and lead. Tunnel and shaft, 5,000 tons, free; water and steam, 5 stamps.	
"	112 miles.	"	Nast Mining & Milling Co., Salt Lake City, Utah, Frank Knox, pres.; John M. Zane, secy.; J. A. Early, treas.; Daniel Eyer, mgr. and supt., Cap. stk. \$300,000. Nast and others, gold, silver and lead. Tunnel, 1,000 tons; refractory, hand.	
"	"	"	Nagara Mining & Smelting Co., Salt Lake City, Utah, 168 Main st., Gilbert F. Polen, pres.; C. Howard Schermerhorn, secy. and treas.; N. Freweck, mgr. Cap. stk. \$100,000,000. Niagara Group, gold, silver and lead. Shafts, tunnels, refractory, steam, mill. John Freweck, supt.	
"	"	"	Old Jordan & Galena Mining Co., Salt Lake City, Utah, P. O. Box 1027, L. E. Holden, pres. and mgr.; C. E. Allen, secy.; W. S. McCormick, treas., Cap. stk. \$2,000,000. Jordan, Galena, Mary Ann and others, gold, silver, lead and iron. Shaft and tunnel, 6,000 tons, refractory, steam, 10 stamp mills, A. F. Holden, supt.	
"	13 miles.	"	Orphan Bay Mining Co., San Francisco, Cal., Chronicle Bldg., Col. Isaac Franklin, pres. and mgr., Orphan Bay, Eschima, Walk off, key-stone, Bonnard and Starless, silver and lead. Tunnel and shaft, 1,500 tons; refractory, Geo. E. Lee, supt.	
"	"	"	Petro Mining Co., Salt Lake City, Utah, 15 Commerce Bldg., G. R. Bodwell, pres.; S. R. Mulner, secy. and mgr., Cap. stk. \$1,000,000. Petro, Democrat and Adella, silver and lead. Shafts and tunnels, 4,000 tons, refractory, steam. Andrew Johnson, supt.	
"	"	"	Sampson Mining Co., Salt Lake City, Utah, 31 Gladstone Bldg., A. F. Hyde, pres.; J. Schenck, secy. and supt., George Arthur Rice, treas. and mgr., Cap. stk. \$300,000. Sampson, gold, silver and lead. Shaft, 1,000 tons, refractory, steam.	
"	"	"	Thurington Mining Co., Salt Lake City, Utah, 56 W. Second S. st., Daniel Thurington, pres.; J. J. Rogers, secy.; J. W. Sullivan, treas., Cap. stk. \$1,500,000. Thurington, gold, silver and lead. Tunnel, free (developing).	
"	"	"	Yampa Extens on Mining Co., Salt Lake City, Utah, Hooper Block, Isaac Jennings, pres. and mgr., Yampa, Extens on, Rattlesnake, Keweenaw, Raven and Utaika, gold, silver and lead. Tunnels and shafts, 5,000 tons, free; water. Geo. E. Lee, supt.	
"	"	"	York Mining Co., Salt Lake City, Utah, Rooms 14 and 20 Watch Block, John A. Groesbeck, pres.; W. E. Andrews, secy. and treas.; D. H. McAllister, pres., mgr. and supt., Cap. stk. \$100,000. York, gold, silver and lead. Slope, 7,000 tons, steam.	
Diamond P. O. and Ry. City 776.		Utah	Battle Mining Co., Eureka, Utah, C. W. Clark, pres.; B. R. Clark, secy. and treas.; Albert Leigh, mgr. and supt., Cap. stk. \$100,000. Diamond, gold and silver. Tunnel and shaft, 1,700 tons, free, hand. Albert Leigh, supt.	
Eureka Ry. 215, 776.		"	C. W. Bennett Mining Co., Salt Lake City, Utah, P. O. Box 180, Cap. \$200,000. C. W. B. Group, gold, silver and lead. Shaft and tunnel, hand and steam (developing). C. S. Davis, supt.	
"	"	"	Bullion Rock & Champion Mining Co., Salt Lake City, Utah, Moses Hatcheret, pres.; W. J. Bentine, secy.; Wm. B. Preston, treas.; A. F. Hyde, mgr., Cap. stk. \$1,000,000. Bullion Rock and Champion, gold, silver and lead. Shaft, 9,000 tons, free; steam. T. A. Taylor, supt.	
"	"	"	Confederal-Eureka Mining Co., Salt Lake City, Utah, Open House Block, J. F. Woodman, pres.; W. W. Chisholm, secy., treas. and mgr., Cap. stk. \$1,500,000. Confederal Eureka, Blue Rock, Kendall, Alta and others, gold, silver and copper. Shaft, 72,000 tons, free and refractory, steam. J. D. Kendall, supt.	
"	"	"	Balthazar Christensen, Mahogany, Marion and James C. Blum, gold, silver and lead. Tunnels and shaft; refractory, hand.	
"	"	"	Goldva Mining Co., Salt Lake City, Utah, John O. Packard, pres.; John McChrystal, secy., mgr. and supt.; Robert Harkness, treas., Cap. stk. \$100,000. Goldva, gold, silver and lead. Tunnel, 500 tons, free, hand.	
"	11 miles.	"	Gold Blossom Mining Co., American Fork, Utah, John Nicholas, pres.; C. W. Kelly, secy. and mgr.; George Nicholas, treas., Cap. stk. \$1,000,000. Gold Blossom, gold. Shaft, refractory, horse.	
"	"	"	John & John H. McChrystal, Eureka, gold, silver and lead. Shaft and tunnel, free; steam, John McChrystal, supt.	
"	2 miles.	"	North Eureka Mining Co., E. P. Murray, pres.; C. L. Pughes, secy.; Ed. Dempsey, treas.; Enzo Depazin, mgr. and supt., Cap. stk. \$300,000. North Eureka and others, gold, silver and lead. Shaft, horse.	
"	"	"	Presidena Mining Co., Salt Lake City, Utah, 18 W. Second st., Alex. McKernan, pres. and treas.; A. F. Dayna, secy.; A. S. Johnson, mgr. and supt., Cap. stk. \$1,000,000. Pasadena, gold and silver. Tunnel, free; hand and horse.	
"	"	"	Richmond & Anaconda Consolidated Mining Co., Salt Lake City, Utah, S. W. Morrison, pres.; John H. McChrystal, pres.; J. E. Stewart, treas.; W. C. B. Allen, secy.; J. F. Bostwick, mgr. and supt., Cap. stk. \$900,000. Danheare, gold and silver. Shaft and tunnel, 2,000 tons, free; horse.	
"	"	"	The Trego Mining Co. of Timbo, Salt Lake City, Utah, Noah W. McChrystal, pres.; Wm. R. Wallace, secy.; Harry T. Tinker, treas.; Gus Trego, mgr. and supt., Cap. stk. \$200,000. Gold. Tunnel, hand (developing).	
Fish Springs P. O. Desert Ry. Oasis 776 145 miles.		Utah	Lama Mining Co., American Fork, Utah. Tunnel, silver and lead. Slope and tunnel, 100 tons, refractory, horse.	

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Frisco		Beaver	Blue Jay Consolidated Mining Co., Salt Lake City, Utah, 46 Central Block. W. H. Chamberlin, pres.; John T. Lynch, secy. and treas.; Jack Lofton, mgr. Cap. stk. \$2,000,000. Trojan, Blue Jay and Mona, silver and lead. Free; horse and hand (developing). O. D. Hendrickson, supt.	
"	"	"	Cactus Mining Co., Paris, France, 20 Rue Tailboul. Sallandronze de Eamornaix, pres.; Harry T. Duke, secy.; Joseph Linc, mgr. and supt. Cap. stk. \$5,000,000. Voorhees, silver and lead. Shaft and tunnel; refractory; hand (developing).	
"	"	"	Horn Silver Mining Co., A. C. Washington, pres.; A. I. Harrison, secy. and treas.; P. T. Farnsworth, mgr. Cap. stk. \$10,000,000. Horn, silver and lead. Shaft, 25,000 tons; refractory; steam; J. Osborne, supt.	
Iron City		Iron	Blair Mining Co., Salt Lake City, Utah, 79 Main St. J. M. Blair, pres. and mgr.; R. S. Campbell, v.-pres.; J. T. Hammond, secy.; Geo. E. Blair, treas. Cap. stk. \$500,000. Flower of West, Putnam, Blair, Trade Dollar and others, silver. Shaft and tunnel, 1,000 tons; free; horse. Brigham Larson, supt.	
Joseph		Sevier	Bald Mountain Mining Co., Castle Gate, Utah. H. B. Asadorian, pres.; J. R. Sharp, secy.; B. F. Caffey, treas.; Jas. L. Smith, mgr. Cap. stk. \$500,000. Annie Laurie, gold and silver. Tunnel; free; electricity (developing). Wm. Dickson, supt.	
Kingston		Pi Ute	Scott & Bauman. Barcelona, gold, silver and copper. Shaft; refractory; horse (developing).	
La Plata		Cache	Ogden-La Plata Mining & Milling Co. Frank J. Cannon, pres.; A. A. Wenger, secy.; J. M. Langsdorf, treas.; J. M. Harris, mgr. and supt. Cap. stk. \$1,000,000. Heller, Blue Bird, Sun Side, silver, lead and copper. Shaft; refractory; hand.	
Mammoth		Junib.	Gerber & Hofer. Hungarian, silver and lead. Shaft and tunnel, 20 tons.	
"	(2 miles).	"	Mammoth Mining Co., Salt Lake City, Utah. Wm. McIntyre, pres.; J. Fred Corker, secy.; Samuel McIntyre, treas.; J. A. Cunningham, mgr. Cap. stk. \$400,000. Mammoth, gold, silver, lead and copper. Shaft, 9,000 tons; refractory; steam. W. M. Nesbit, supt.	
Marysville		Pi Ute	The Dalton Gold Mining & Milling Co., Salt Lake City, Utah, Hooper Bldg., Room 62. C. A. Ames, pres.; Willis M. Ames, secy.; Frank Knox, treas.; Isaac Jennings, mgr. Cap. stk. \$2,500,000. Pearl and Hard cash, gold and silver. Tunnels and shaft, 3,000 tons; free, water; mill.	
"	"	"	Ferris Gold & Silver Mining Co., Salt Lake City, Utah, 60 E. Temple St. Lorenzo Snow, pres.; A. M. Musser, secy.; B. H. Shuttler, treas.; A. E. Gregorian, mgr. and supt. Cap. stk. \$1,000,000. Twelve mines, gold. Tunnels; free (developing).	
"	"	"	Gold Belt Mining & Milling Co., Salt Lake City, Utah, 43 W. Second South St. Wm. F. Colton, pres.; W. H. Donnell, secy.; E. L. Carpenter, treas.; C. A. Ames, mgr. Cap. stk. \$500,000. Hidden Treasure, Giles, Gold Belt, Gold Belt Extension, gold and silver. Tunnel; free; hand (developing). D. A. Giles, supt.	
"	"	"	Webster Mining Co., Salt Lake City, Utah. Webster Group, gold, silver and lead. Tunnels; refractory; concentrators. John Fergusson, supt.	
Milford		Beaver	James Barrett's. Moscow. Tunnels and shafts, 50 tons, free and refractory; hand.	
"	(16 miles).	"	John T. Kelly. Anvil, gold, silver and lead. Slope; free; hand.	
"	"	"	James Lavelle. Iron, gold, silver and lead. Slope, shaft and tunnel; free; hand.	
"	"	"	W. R. Sloan. Atlas, gold, silver and lead. Tunnels, shafts and inclines, refractory; hand.	
"	"	"	Tahsman & Stalwart Consolidated Silver Mining Co., Seattle, Wash. I. F. McNaught, secy.; H. Hetner, mgr. Cap. stk. \$1,000,000. Tahsman and Stalwart, silver and lead. Slope; refractory; horse and hand (developing). Peter S. Martin, supt.	
Miller Hill		Utah	The Treasure Consolidated Gold & Silver Mining Co., American Fork, Utah. James Chipman, pres.; Edward Winn, v.-pres.; Washburn Chipman, secy. and treas. Cap. stk. \$2,500,000. Treasure, Dolphin, Nemo, Ohio, gold, silver and lead. Tunnels.	
Minersville		Beaver	W. L. Croll. Creole, Two Lone Brothers, Kattler and others, gold, silver, iron, copper, lead and bismuth. Tunnels and shafts; free (developing).	
"	(7 miles).	"	Gressmen Bros. North Galena, gold, silver and lead. Open pit; free; hand.	
"	"	"	Monte Cristo Mining & Milling Co., Salt Lake City, Utah, 20 E. First South St. J. G. Jacobs, pres.; Joseph T. Bache, secy.; Oscar Zipt, treas.; J. H. Dupuy, v.-pres. and supt. Cap. stk. \$1,000,000. Monte Cristo, gold, silver and copper. Tunnels and shafts, 70 tons; free; water; 5 stamps.	
"	"	"	Charles Rolt. Maybed and others, gold and silver; water.	
Mona		Junib.	Lorenzo Babcock. Cap. \$1,200. Hidden Treasure, gold, silver, iron and mica. Tunnel, 150 tons; hand.	
"	(5 miles).	"	Elas Molynoux. Cap. \$4,000. Gold King, gold and silver. Shaft, 1 ton; free; hand.	
"	"	"	Starr Bros. Enterprise, gold, silver and lead. Slope and tunnel, 10 tons; hand.	
"	"	"	John Yates & Ruben Stevens. Cap. \$4,000. Great Eastern, silver and lead. Shaft.	
Ogden		Weber	Don Maguire, 30 Twenty-fifth St. Cap. \$100,000. Santa Maria, gold and silver. Tunnel, 300 tons; refractory; horse. John Reddy, supt.	
"	(15, 776)	"	Red Jacket Mining & Milling Co., First National Bank Block. H. B. Westover, pres.; John E. Bagley, secy.; W. A. Bennett, treas.; C. K. Westover, mgr. and supt. Cap. stk. \$250,000. Red Jacket, Queen of Hills, gold and silver. Shaft and tunnel, 20,000 tons; free; hand and steam.	
Ophir		Tooele	Estate of Gen. P. E. Connor. Chloride Point, silver. Tunnel, 300 tons; free.	
"	Ry. Stockton 776 (19 mi.)			

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN	AND	COUNTY.	
Ophir.		Tooele	Consolidated Mining Co., St. Louis, Mo., cor. Second and Cass av. W. F. Niedringhaus, pres.; Alex. Niedringhaus, secy. and treas.; E. J. Radtke, mgt. and supt. Cap. stk. \$100,000. Buckhorn, silver and lead. Shaft, slopes and tunnels, 1,000 tons, refractory, steam.
"	"	"	Gladstone Mining Co., Gladstone, gold, silver and lead. Shaft, tunnel, slope and open pit, refractory and free, hand. Geo. St. Clair, Jr., supt.
"	"	"	Little Pittsburg Mining Co., Salt Lake City, Utah, 36 Central Block, P. London, pres.; A. F. Groves, secy. and treas.; James McEvoy, mgt. and supt. Cap. stk. \$2,500,000. Little Pittsburg Group, gold and silver. Slope and tunnel, free, hand.
"	"	"	Patrick McVee, Margaret Kelly & Lewis W. Clark. Northern Light, gold, silver and lead. Shaft, 750 tons, free and refractory, horse.
Park City	Summit		Alliance Mining Co., Salt Lake City, Utah, 108 Main st. A. Hanger, pres.; C. T. Stevenson, secy.; Jas. Glendinning, treas.; N. Treweek, mgt. Cap. stk. \$100,000. Nine claims, gold, silver and lead. Shafts and tunnels, refractory, steam. Geo. B. Norman, supt.
"	"	"	Anchor Mining Co., Cleveland, Ohio, 14 Euclid av. John L. Woods, pres.; D. C. McLaughlin, secy.; W. S. McOrmonck, treas.; Edward P. Terry, mgt. Cap. stk. \$3,000,000. Anchor, gold, silver and lead. Tunnels and shaft, 50,000 tons, refractory, steam, mill. David Keith, supt.
"	"	"	Crescent Mining Co., E. H. Withey, pres.; H. M. Hunsdill, secy.; W. S. McOrmonck, treas.; James McOrmonck, mgt. Cap. stk. \$1,000,000. Forty mining claims, gold, silver and lead. Shaft and tunnels, 5,482 tons, free, steam. James Hickey, supt.
"	"	"	Daily Mining Co., Salt Lake City, Utah, 125 S. Main st. R. C. Chambers, pres.; mgt. and supt.; Thos. J. Ahn, secy.; J. E. Hazen, treas. Cap. stk. \$200,000. Daily, gold and silver. Shaft, 200 tons, free, refractory, steam, 40 stamps, chloridizing furnaces.
"	"	"	Glenore Mining Co., Salt Lake City, Utah, M. Shaugnessy, pres.; H. G. McMillan, secy.; George S. Frink, A. prest. and treas. Cap. stk. \$2,700,000. Glenore, silver and lead. Tunnel, refractory, steam. W. M. Curtis, supt.
"	"	"	Jupiter Mining Co., Council Bluffs, Iowa. Geo. T. Wright, pres.; Wm. Sedentop, secy.; Wm. Moore, treas.; Chas. L. Street, mgt. and supt. Cap. stk. \$3,000,000. Seventeen mining claims, gold, silver and lead. Tunnels, developing.
Provo City	Utah		Ontario Silver Mining Co., Salt Lake City, Utah, 125 S. Main st. J. E. Hazen, pres. and treas.; Irwin C. Shimp, secy.; R. C. Chambers, mgt. and supt. Cap. stk. \$1,000,000. Ontario, gold and silver. Shaft, 20,815 tons, refractory, steam, 40 stamps, chloridizing furnaces.
Rush Valley	Utah		Provo State Co., 14 Union Block. W. R. Pike, pres.; Edward Pike, secy.; F. W. C. Hathornbeck, treas. mgt. and supt. Cap. stk. \$100,000. Phoebe No. 1, gold, silver and slate. Tunnel, free.
Silver City	Utah		Buffalo Bill Mining Co., John J. Gosheng, pres.; Fred R. G. Jeff, A. prest.; C. J. Powell, treas.; R. W. Jones, secy. Cap. stk. \$100,000. Gold, silver, lead and iron. Tunnel and shaft, horse. R. W. Jones, supt.
"	"	"	Brooklyn Mining Co., Springville, Utah. Brooklyn, gold and silver. Shaft, 100 tons, refractory, horse.
"	"	"	Cleveland Consolidated Mining Co., Geo. Ryan, pres.; Charles S. Horne, secy. and treas. Cap. stk. \$125,000. Gold and silver. 100 tons, refractory, horse and steam.
"	"	"	Columbus Mining Co., Cedar Rapids, Iowa. Samuel P. Cox, pres.; John S. Fly, secy. and treas. Cap. stk. \$1,000,000. Julian Lane Group, gold and silver. Shaft and tunnel, free and refractory. H. C. Wilkin, supt.
"	"	"	Golden Treasure Mining Co., Salt Lake City, Utah. Judge Marshall, pres.; J. L. Brady, secy.; treas. and mgt. Golden Treasure, gold and silver. Shaft, 200 tons, free, horse. Wm. Caruthers, supt.
"	"	"	H. D. Jones. Unlime, silver and lead. Tunnel, shaft, 500 tons, refractory, hand.
"	"	"	Mountain King Mining Co., Salt Lake City, Utah. O. J. Cooke, pres.; J. M. Benches, secy. and mgt.; F. Griffiths, treas. Cap. stk. \$100,000. Monterey, silver and lead. Shaft, free horse. F. Pitt, supt.
"	"	"	Phoenyx Mining Co., Phoenyx, gold, silver and copper. Shaft, tunnel, developing. Geo. S. Rust, supt.
"	"	"	Pride of the Hills Mining Co., Salt Lake City, Utah, 25 Second South st. D. A. Shely, pres.; James L. Yonah, secy. and treas.; J. W. Smith, mgt. and supt. Cap. stk. \$500,000. Pride of the Hills, Mont. ion chert, Sunday and others, gold, silver, lead and iron. Tunnels, shafts, refractory, horse.
"	"	"	A. Roberts. Cap. stonage. North Star, gold, silver, lead and copper. Tunnel, 400 tons, refractory, hand.
"	"	"	Silver City Gold & Silver Mining Co., Salt Lake City, Utah, Grand Commercial Bldg. C. R. Hancock, pres. and mgt.; J. L. Redman, secy.; H. J. Osborne, treas. Cap. stk. \$500,000. Wheeler, silver and lead. Shaft, horse. J. W. Black, supt.
"	"	"	Silver Spot Mining & Mfg. Co., Geo. Ryan, pres.; James A. Pollock, A. prest.; George F. Deorey, treas.; Amos Dodd, secy. Cap. stk. \$1,000,000. Gold, silver and lead. Refractory, horse and steam, developing. Geo. Ryan, supt.
"	"	"	Snowy Consolidated Mining Co., Provo City, Utah. S. S. Jones, pres.; Albert Jones, secy. and treas.; C. E. Lowe, mgt. and supt. Cap. stonage. Snowy, gold and silver. Shaft and slope, 1,000 tons, refractory, horse and hand.
"	"	"	South Swansea Mining Co., J. L. Crovally, mgt. and supt. Cap. stk. \$300,000. South Swansea, silver, iron and lead. Shaft, 20 tons, refractory, horse.
"	"	"	Tesoro Silver Mining Co., Chicago, Ill., 22 Dearborn st. George F. Church, pres.; J. B. Chandler, secy.; F. W. Farwell, treas.; C. H. Blanchard, mgt. and supt. Cap. stk. \$300,000. Tesoro, gold and silver. Shaft, refractory, horse.
Silver Reef	Washington		Christy Mining Co., San Francisco, Cal., 40 Pine st. Robert N. Graves, pres.; George B. Christy, secy.; Angelo albonian Bank, treas.; D. M. Tyrrell, mgt. and supt. Cap. stk. \$100,000. Christy, silver. Shaft and slope, free, steam, 5 stamps.
"	"	"	Stoneman Mining Co., Philadelphia, Pa., 208 S. Fourth st. Charles H. Lehmann, pres.; Savage, Rich. eye, East Chance, MacNally and Thompson, silver. Shaft, free, steam, 10 stamps.
"	"	"	Woolley, Lund & Child, Barlow and Walker, silver. Slope, free, steam, 10 stamps. H. W. Miles, supt.

GOLD AND SILVER (Continued)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Stockton	Tooele		Argent-Wade Hampton Mining Co., John F. Connor, prop'r. Cap. \$1,500. Argent and Wade Hampton, gold, silver and lead. Shaft, 100 tons; horse.	
"	"		E. Diney & Co. Cap. \$80,000. Alice Group, gold and silver. Shafts: steam. E. J. Radtke, supt.	
"	"		L. Osgood. No U. Don't, gold, silver and lead. Shaft and tunnel; refractory: steam.	
"	"		J. C. Reynolds. Bunker Hill, silver and lead. Shafts, 500 tons; steam and horse.	
"	"		Shamrock Mining Co. C. E. Mitchener, pres't.; F. B. Critchlow, secy. and treas.; E. B. Mitchener, mgr. and supt. Cap. stck. \$800,000. Shamrock, silver and lead. Shaft, steam developing.	
Tintie	Tooele		New Tintie Mining & Smelting Co., Salt Lake City, Utah, Central Block, Rooms 34 and 35. P. A. H. Franklin, pres't.; Edw. J. Dummick, secy., Christian Freider, treas., Cap. stck. \$1,000,000. New Tintie, gold, silver and lead. Shaft and tunnel; free developing. J. D. Stevens, supt.	
Tooele	Tooele		Pine Cyon Mining Co., Salt Lake City, Utah, 64 West Second South st. W. M. Miner, pres't.; Criston Johnson, secy.; J. M. Hamilton, treas.; Benj. Peasnell, mgr. and supt. Cap. stck. \$200,000. Pine Cyon, gold, silver and lead. Tunnel, free.	
West Tintie	Juab		J. R. Hickman, P. O. Box 23. Hickman, Clayton and Wright, gold, silver and lead. Shaft and inclines (developing).	
(P. O. Nephi) Ry. from				

GYPSUM

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Nephi	Juab		Nephi Plaster & Manufacturing Co., Main st. John Hague, pres't.; J. A. Hyde, secy., treas. and mgr. Cap. stck. \$100,000. Nephi. Open pit, 2,400 tons; water.	
Ry. 776.				

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Iron City	Iron		Consolidated Implement Co., Cedar City, Utah. G. G. Davis, pres't. and treas.; James Woolsey, secy.; E. J. Eddards, mgr. Cap. stck. \$2,000,000. Flag Shaft, Wall Street, American Eagle, iron. Tunnel; refractory. David Woolsey, supt.	
P. O. & Ry. Milford 776.				

LEAD AND ZINC

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Park City	Summit		Park City Mining Co., John L. Street, pres't.; Chas. E. Street, secy., treas. and mgr. Cap. stck. \$100,000. Seven claims; lead. Shaft and tunnel.	
Ry. 776.				

MINERAL WAX

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Soldier's Summit	Utah		Ozocerite Mining Co., New York, N. Y., 290 Broadway. J. Wallace, pres't.; Chas. H. Barkley, secy. and treas.; R. J. Kromp, mgr. and supt. Cap. stck. \$1,250,000. Summit, mineral wax. Shaft, steam.	
N. P. O. Ry. 275.				

SALT

LOCATION OF MINE OR WELL, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Centerville		Davis	Saginaw Salt Co., Salt Lake City, Utah. E. E. Rich, mgr. Cap. stk. \$50,000. Made from Great Salt Lake by evaporation, coarse, fine and dairy. 20,000 tons, steam.	
Nephi		Utah	Nephi Salt Mining & Manufacturing Co. Geo. C. Whitmore, pres., C. S. Tingey, secy., treas. and mgr. Cap. stk. \$25,000. Rock. Mine, open pit, 10,000 tons; hand.	
Salt Lake		Sevier	Lewis & Gottfredson. Cap. \$3,000. Lewis & Gottfredson, rock salt. Open pit, 250 tons; hand.	
Salt Lake City		Salt Lake	People's Forwarding Co., 26 E. Second South st. E. F. Rich, treas. and mgr. Cap. \$50,000. Lake Shore, water from Great Salt Lake, coarse. 25,000 tons, steam. Chas. Backman, supt.	
"		"	Saginaw Salt Co., 24 E. Second South st. E. E. Rich, pres. and mgr.; S. F. Walker, secy. and treas. Cap. stk. \$50,000. Saginaw, water from Great Salt Lake, coarse. 20,000 tons, steam. Chas. Backman, supt.	
"		"	Desert Salt Co., James Sharp, pres., C. W. Lyman, secy and treas.; Geo. J. Waller, mgr. Cap. stk. \$80,000. Desert, coarse. 12,000 tons, steam.	
Syracuse		Davis	Adams & Keisel Salt Co., Ogden, Utah. D. C. Adams, pres., H. A. Lindsey, secy., Theo. Schausenbach, treas., Wm. Schausenbach, mgr. Cap. stk. \$100,000. Pumped from Great Salt Lake, coarse salt. 25,000 tons, steam.	

SLATE

LOCATION OF QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF QUARRY, KIND OF SLATE, KIND OF QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF QUARRY SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Provo City		Utah	The Colorado & Utah Mining & Slat Co., Colorado Springs, Colo. P. O. Box 141. E. C. Britton, pres., W. W. Williamson, secy., Walter Binkley, treas. Cap. stk. \$100,000. Bots and Charleston, blue, gray and pink slate. Open pits.	
"		"	Hathenbruck & Pike, Provo City, Utah, 11 Union Block. F. W. C. Hathenbruck, pres., mgr. and supt.; Edward Pike, secy.; W. R. Pike, treas. Cap. stk. \$30,000. Provo, slate. Open pit, 30,000 tons; water and steam, mill.	

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERICKS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Castle Gate		Emery	Ferguson & Copenhagen, Salt Lake City, Utah, P. O. Box 177. Cap. \$5,000. Sharp's, sandstone. Open pit, 10,000 tons; hand. J. L. Ferguson, supt.	
Cedar City		Iron	Williams & Bladen local. Cap. \$500. Red cloud, limestone. Open pit, 100 tons; hand, mill.	
Ephraim		Salt Lake	E. L. Parry & Sons, Mantu, Utah. F. L. Parry, treas. F. L. Parry, secy. Odette. Slope, 100 tons; hand.	
Park City		Summit	Metropolitan Stone Co., Salt Lake City, Utah. Hooper Block. Simon Hammer, pres.; W. L. Kether, secy.; H. M. McCarthy, mgr. Cap. stk. \$50,000. Metropolitan, sandstone. Open pit, steam. Alt. A. Rudy, supt.	

SULPHUR

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Sulphurdale		Benewah	Docket & Myers, Salt Lake City, Utah. J. H. Rutland, mgr. Cap. stk. \$200,000. Day Creek. Open pit, 5,000 tons; steam.	

SEE ALSO SUPPLEMENTARY LIST

VERMONT

COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY	
South Stratford, Orange Ry., Pomfret, 71.	Elizabeth Mining Co., Baltimore, Md., 301 N. Charles st., Jas. W. Tyson, pres.; Wm. Glenn, secy.; M. D. Tyson, treas.; Geo. W. Dow, mgt. and supt. Cap. stk. \$500,000. Elizabeth. Shaft and tunnel; steam.

KAOLIN

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.
TOWN AND COUNTY	
Bennington, Bennington Ry., 58, 392.	S. C. Lyons & Bros. Kaolin, ochre. Shaft, slope, 1,700 tons; water, steam.
S. Shaftbury Bennington Ry., 58.	S. C. Lyons & Bros. Kaolin, ochre. Shaft, slope, 500 tons; water, steam.

MINERAL PAINT

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY	
Bennington, Bennington Ry., 58.	Emos Adams & Co. Yellow ochre, crystallized quartz. Shaft, 800 tons; water; stone mills.
Leicester, Addison Ry., Brandon 129.	Crown Point Mineral Paint Co., Crown Point, N. Y. Chester Griswold, pres. Cap. \$10,000. Ochre. Shaft, 800 tons; steam; mill. H. C. Brownson, supt.

SLATE

LOCATION OF QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF QUARRY, KIND OF SLATE, KIND OF QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF QUARRY SUPERINTENDENT.
TOWN AND COUNTY	
Castleton, Rutland Ry., 214	Billings Slate & Marble Co., C. W. Billings, pres.; C. W. Tremain, secy. and treas. Cap. stk. \$50,000. Trojan. Open pit, tunnel, 300 tons; steam, mill. Patrick Quinn, supt.
" "	Bolger Bros. Cap. \$50,000. Open pit, 14,000 tons; steam, mill.
" "	R. Hanger's Slate Works. Cap. stk. \$5,000. Open pit, tunnel, 1,000 tons; steam, mill. Wm. R. Hughes, supt.
" "	Lake Bomoseen Slate Co. Cap. \$50,000. Lake Bomoseen. Open pit, 2,000 tons; steam; mill. John Delehanty, supt.
East Haven, Rutland Ry., 214	Conlman & Westcott. Cap. \$25,000. Open pit, 1,200 tons; steam; mill. Wm. Francis, supt.
" "	East Haven Marble & Marbleized Slate Co., C. R. Allen, pres.; F. E. Allen, secy. and treas.; E. L. Allen, mgt. Cap. stk. \$100,000. Open pit, 1,000 tons; steam, water, mill.
" "	Francis & Co. Open pit, horse. William Francis, supt.
" "	Jones, Owens & Co. Open pit, 700 tons; horse.
Fowler, Rutland Ry., Granville, N. Y., 215	Thomas R. Griffith. Open pit, 1,800 tons; steam.
" "	W. H. Hughes. Open pit, steam.
" "	Notton Bros. Cap. \$45,000. Open pit, steam, mill.
" "	Owen W. Owen's Sons. Cap. \$10,000. Open pit, 3,000 tons; steam.
" "	Rising & Nelson. Cap. \$10,000. West Fowler. Tunnel, open pit, 10,000 tons; steam. John E. Robert, supt.
" "	Williams & Edwards. Cap. \$30,000. Open pit, 5,000 tons; steam, horse.
Poultney, Rutland Ry., 215.	Yield & Conger, Cleveland, Ohio, 100 Euclid av. Cap. stk. \$100,000. Mammoth. Open pit, 30,000 tons; steam. M. J. Jones, supt.
" "	Buckeye Slate Co. Seth Roberts, pres. and secy.; R. L. Jones, treas. and mgt. Cap. stk. \$10,000. Buckeye. Open pit, 5,000 tons; steam.
" "	Closs & Owens. Camatoon. Open pit, horse.
" "	Eastern Slate Co. Robert Jones, pres. W. R. Jones, secy.; Robert J. Davis, treas.; David E. Davis, mgt. Open pit, horse.

SLATE. (CONTINUED.)

LOCATION OF QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF SLATE, KIND OF QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF QUARRY SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Poultney,	Rutland	Edwards & Williams.	Cap. \$6,000. Open pit, 6,000 tons; steam.	
(Continued.)				
"	"	Ennuka Slate Quarries Co.	A. Tuttle, treas. and mgr. Ennuka. Open pit, 10,000 tons; steam; mill.	
"	"	Hughes, Evans & Co.	Evans M. Evans, pres.; Wm. R. Hughes, secy.; R. W. Hughes, treas. and supt.; Hugh R. Hughes, mgr. Cap. \$2,000. Open pit; horse.	
"	"	N. A. Litchfield.	Open, 1,000 tons; horse; mill.	
"	"	Lloyd & Jones.	Cap. \$1,500. Slope, 740 tons; steam. R. W. Jones, supt.	
"	"	N. E. Lloyd Slate Co.	N. E. Lloyd, pres.; N. H. Lloyd, secy. and treas. M. Roberts, mgr. and supt. Cap. \$50,000. Footless. Open pit, 5,000 tons; steam; mill.	
"	"	Mnogie & Green.	Cap. \$30,000. Evergreen, 1,500 tons; steam; mill.	
"	"	Barry & Jones.	Open pit; steam.	
"	"	Valley Slate Co.	R. E. Lloyd, propr. Cap. \$4,000. Slope, 745 tons; steam.	
"	"	Vermont Slate Mining Co.	W. H. Kertland, pres.; N. A. Litchfield, secy.; treas. and mgr. Cap. \$84,800. Poultney Tunnel, open pit, 3,000 tons; steam; horse; mill. Thomas R. Maylor, supt.	
Wells,	Rutland	W. F. Roberts.	Open pit; horse.	
Ry. Granville, N.Y. 213.				
West Pawlet	Rutland	S. C. Denison.	Cap. \$10,000. Slope; steam.	
Ry. 213.				

SOAPSTONE.

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.	
TOWN	AND	COUNTY		
Stockbridge,	Windsor	Foxed River Lale Co.	N. D. Parker, pres.; F. Durkee, secy. and treas. T. N. Bingham, mgr. Albion Lale.	
Ry. Bethel 130.			Open pit, 100 tons; horse.	
Waterville	Lamoille	Vermont Asbestos Pulverizing Co.	Rutland, Vt. H. O. Eason, pres.; T. G. S. Huntington, secy.; H. O. Cat-	
Ry. Jeffersonville 120			pend; treas.; James Fosburgh, mgr. and supt. Cap. \$84,000. Lale. Open pit; steam; mill; developing.	

STONE, MARBLE, GRANITE AND ONYX.

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMESTONE AND CALCITE, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Barre,	Washington	H. F. Cheney.	Cap. \$4,000. Granite. Open pit, 1,500 tons; horse.	
Ry. 129, 49.				
"	"	Drew, Parkhurst & Co.	Cap. \$4,000. Granite. Open pit; steam.	
"	"	H. A. Duffly & Son.	H. A. Duffly, pres. and treas.; Francis A. Duffly, secy. and mgr. Cap. \$84,500. Barre; granite. Open pit; steam. G. R. Roby, supt.	
"	"	Empire Granite Co.	Cap. \$15,000. Open pit, 2,500 tons; steam. M. F. Conaghan, supt.	
"	"	Excelsior Granite Co.	Montpelier, Vt. S. J. Staples, pres.; G. L. Capland, secy. and treas. Cap. \$84,000. Excelsior; granite. 1,500 tons; steam; mill.	
"	"	James Gazeley, Albany, N.Y.	Cap. \$10,000. Granite. Open pit, 2,000 tons; steam; mill. John S. Waver, supt.	
"	"	Langdon Granite Co.	Montpelier, Vt. James R. Langdon, pres.; James M. Bondell, treas. and mgr. Cap. \$84,000. Langdon; granite. Slope; open pit, 2,400 tons; steam. Henry C. Conaghan, supt.	
"	"	Mann Bros.	Granite. Steam.	
"	"	Milne & Wythe.	Cap. \$20,000. Granite. Open pit, 4,000 tons; horse; mill.	
"	"	A. D. Morse.	Cap. \$60,000. Granite. Open pit, 1,000 tons; horse; water; mill.	
"	"	John O. Rourke.	Cap. \$10,000. Barre. Standard; granite. Open pit; horse; and mill.	
"	"	H. N. Parkhurst.	Cap. \$15,000. Granite. Steam.	
"	"	E. L. Smith & Co.	Cap. \$40,000. Granite. Open pit, 500 tons; steam; horse; mill.	
"	"	C. F. Faynter & Co.	New York City, 229 Broadway. F. M. Laynter, mgr. and supt. Cap. \$11,850,000. Barre; granite. Open pit, 2,500 tons; steam.	
"	"	Vermont Granite Co.	S. C. White, pres. and treas. H. K. Bush, secy. Cap. \$84,000. Granite Tunnel, 5,000 tons; steam; horse; mill.	
"	"	H. Webster.	Cap. \$14,000. Webster; granite. Slope; open pit, 300,000 tons; horse; and mill.	
"	"	Wells, Lamson & Co.	Cap. \$60,000. Granite. Open pit, 2,200 tons; steam; horse; mill.	
"	"	Whitmore & Morse Granite Co.	Montpelier, Vt. Albert Johannetti, pres.; E. J. Eaton, treas.; N. W. Frank, mgr. Cap. \$84,000. Granite. Slope; open pit, 3,400 tons; steam; mill. N. Bondell, supt.	

STONE, MARBLE, GRANITE AND ONYX (CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Bethel Ry. 129.		Windsor	C. Denzmann.	Granite. Open pit.
Brandon Ry. 129.		Rutland	Brandon Italian Marble Co., James P. Upham, pres.; H. D. Bacon, secy., treas. and mgr. Cap. stk. \$200,000.	Brandon Italian marble. Open pit, 80,000 tons; steam, mill.
"		"	Briggs & Johnstone, T. J. Johnstone, mgr. Cap. stk. \$80,000.	Brandon, marble. Open pit, 2,000 tons; steam, 2 mills. T. McGuire, supt.
"		"	Peck & Harris.	Marble. Open pit, steam, horse; mill. L. B. Peck, supt.
Brownville Ry. Barton Landing 71.		Orleans	Pike Manufacturing Co., Pike Station, N. H. E. B. Pike, pres. and mgr.; F. M. Tucker, secy. and treas. Cap. stk. \$70,000.	Pike, sandstone.
Burlington Ry. 129.		Chittenden	G. N. Willard, 80 Shelburne st.	Sandstone. Open pit, 6,000 tons; hand. H. G. Willard, supt.
Calais Ry. Montpelier 129, 173.		Washington	Granite Construction Co., Montpelier, Vt., 68; E. State st. George H. Guernsey, pres. and treas.; A. Shamba, v.-pres. Cap. stk. \$6,000.	Granite. Slope, open pit, 3,000 tons. N. Dubue, supt.
Derby Ry. Newport 71		Orleans	Lester Cleveland.	Clyde River, granite. Open pit; horse, hand.
"		"	Moor Granite Co., E. G. Miller, pres.; George H. House, secy. and treas. D. W. Moir, mgr. Cap. stk. \$100,000.	Granite. Open pit, 5,000 tons; steam. D. W. Moir, supt.
"		"	Curtis Willey.	Cap. \$7,500. Derby, granite. Open pit, 1,075 tons; hand.
Dorset Ry. East Dorset 58.		Bennington	J. K. Freedley & Sons, Philadelphia, Pa., 210 S. Twenty-fourth st. Manchester, marble. Open pit, 2,000 tons; steam, mill. E. R. Harwood, supt.	
East Haven Ry. 213.		Rutland	J. W. Williams & Co.	Sandstone. Open pit, 250 tons; horse.
Fairlee Ry. 71.		Orange	Fairlee Granite Co., Cap. stk. \$200,000.	(Developing.)
Granbyville Ry. 49.		Washington	Vermont Quarry Co., Montpelier, Vt., 73 Main st. R. C. Bowers, pres. and mgr.; F. L. Eaton, secy. and treas. Cap. stk. \$15,000.	Granite. Open pit, 2,000 tons; horse.
Hardwick Ry. 70.		Caledonia	Brush & Curtis.	Crystal Brook, granite. Slope, 500 tons; horse, mill.
"		"	Hardwick Granite Co., Cap. \$25,000.	Granite. Water, mill.
Leicester Ry. West Salisbury 120.		Adams	Brandon Lime & Marble Co., J. W. Buell, pres.; O. C. Huntley, secy., treas. and mgr. Cap. stk. \$15,000.	Granite. Open pit, 30,000 tons; horse, limekiln, capacity 30,000 tons.
"		"	Leicester Marble Lime Co., G. O. Swinnington, pres.; J. A. Swinnington, secy.; J. C. Swinnington, treas., mgr. and supt. Cap. stk. \$12,000.	Lime stone, 7,000 tons; steam, limekiln, capacity 50,000 bbls.
Rawlet Ry. Granville, N.Y., 213.		Rutland	S. F. Culver.	Cap. \$10,000. Open pit, 600 tons; horse.
Pittsford Ry. Rutland 58, 213.		Rutland	Wheaton Quarry Co., J. B. Hollister, mgr.	Wheaton, marble. Open pit, 3,000 tons; steam.
Proctor Ry. 129.		Rutland	Columbian Marble Co., Samuel Harlow, pres.; R. Barrett, secy., treas. and mgr. Cap. stk. \$150,000.	Columbian, marble. Open pit, 5,000 tons; steam, mill. M. R. Duntun, supt.
Ryegate Ry. 71.		Caledonia	Ryegate Granite Works Co., Ryegate, granite. Open pit, 1,000 tons; water, mill. E. E. Batchelder, supt.	
Victory Ry. Morris 703		Essex	C. A. Stoly.	Cap. \$2,000. Granite. Open pit, steam.
Wallington Ry. 58.		Rutland	W. W. Kelley & Son.	George W. Kelley, mgr. Marble. Open pit, 500 tons; steam, water, mill. Thomas Norton, supt.
Wilmington Ry. 129.		Windham	George E. Lyons Granite Co., George E. Lyons, pres. and mgr.; George S. Dowley, secy. and treas. Cap. stk. \$75,000.	Granite. Open pit, 15,000 tons; steam, horse. D. J. Bailey, supt.
Westmore Ry. West Burke 71.		Orleans	Pike Manufacturing Co., Pike Station, N. H. E. B. Pike, pres. and mgr.; F. M. Tucker, secy. and treas. Cap. stk. \$70,000.	Pike, sandstone.
West Rutland Ry. 213.		Rutland	Albertain Marble Co., Worcester, Mass., Knowles Bldg., Wm. R. Albertain, pres. and secy.; L. G. Biglow, treas. W. H. Skeeles, mgr. and supt. Cap. stk. \$120,000.	Esperanza, marble. Open pit, 3,000 tons; steam, mill.
"		"	Rutland White Marble Co., Worcester, Mass., 320 Main st. C. H. Fitch, pres.; C. H. Barbour, secy.; A. L. Barbank, treas.; J. W. Howe, mgr. Cap. stk. \$200,000.	Rutland White Marble Quarry, white marble. Open pit, steam, mill. M. H. Murphy, supt.
"		"	True Blue Marble Co., L. W. Branton, pres.; George B. Royce, secy., treas. and mgr. Cap. stk. \$200,000.	True Blue, marble. Open pit, 6,000 tons; steam, mill, limekiln, 2,000 tons. George C. Underhill, supt.
"		"	Vermont Marble Co., F. D. Proctor, pres. and mgr.; F. A. Baker, secy.; E. R. Morse, treas. Cap. stk. \$300,000.	Marble. 50,000 tons; steam, water, mill.
Woodbury Ry. Hardwick 702		Washington	Woodbury Granite Co., George O. Woodcock, pres.; C. A. Watson, secy.; W. H. Fullerton, treas. and mgr. Cap. stk. \$200,000.	Granite. Open pit, 4,200 tons; hand. C. L. Sanford, supt.

SEE ALSO SUPPLEMENTARY LIST

VIRGINIA

COAL, ANTHRACITE.

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL-BREAKERS, WASHERS, CORE-OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
Cochran, Ry. 523.	Wise Fine Run Coal & Coke Co., C. H. Montgomery, pres't., W. S. M. Bell, secy. and treas., J. L. Rankin, mgt., and supt. Cap. stk. \$20,000. Adm. Tunnel, 50,000 tons, horse.
Price's Fork, Montgomery Ry. Vickers Switch 523.	M. S. Price. Cap. \$2,000. Tunnel, hand.
Radford, Montgomery Ry. Vickers Switch 523.	Virginia Hard Coal Co., G. Van Dorn, pres't., C. C. Boykin, secy. and treas., Cap. stk. \$25,000. Slope, tunnel, steam, developing, W. T. Jenkins, supt.

COAL, BITUMINOUS.

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL-BREAKERS, WASHERS, CORE-OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
Big Stone Gap, Ry. 408.	Wise Big Stone Gap Coal Co., New York, N. Y., J. Broadway, Hon. D. J. Turner, pres't., F. H. Leonard, secy., W. F. Young, treas., L. B. Deafoll, v. pres't. and mgt. Cap. stk. \$200,000. Duff, 3,500 tons, Joseph Johns, supt.
" "	Virginia, Tennessee & Carolina Steel & Iron Co., New York, N. Y., Bowling Green, John C. Haskell, pres't., F. H. Wentworth, secy., D. H. Conkle, mgt. Cap. stk. \$400,000. Looney Creek. Tunnel, 30,000 tons, hand, Thomas Johns, supt.
Blackship, Montgomery Ry. Christiansburg 523.	Kanode & Shissus. Cap. \$2,000. Shissus. Slope, open pit, 2,000 tons, horse. C. P. Kanode, supt.
" "	Kinger & Schaeffer. Cap. stk. \$20,000. Strouds Creek. Slope, 2,000 tons, horse. L. M. Schaeffer, supt.
Candora, Montgomery Ry. Christiansburg 523.	W. C. G. Myers. Cap. \$14,000. Price Mountain. Slope, tunnel, horse, steam.
" "	Sinkous & Kays. Cap. \$1,000. Bruce, Brush Mt. Slope, 2,000 tons, horse. A. E. Hawkins, supt.
Chesterfield, Chesterfield Ry. Fendleys 229.	Wate R. Gay, Boston, Mass., York, Va. Shaft, 2,000 tons, steam, broken, ftz. J. T. Jones, supt.
Gayton, Henrico Ry. Lorraine 147.	Wate R. Gay, Boston, Mass., York, Va. Shaft, 2,000 tons, steam, broken, ftz. J. T. Jones, supt.
" "	Richmond Coal Mining & Manufacturing Co., Richmond, Va., C. S. Nix, pres't., Wate R. Gay, pres't. and mgt. Cap. \$100,000. Shaft, slope, capacity 20,000 tons, steam, breaker, washer, J. T. Jones, supt.
Gooseland, Gooseland Ry. Manders 132.	Wate R. Gay, Boston, Mass., York, Va. Shaft, 2,000 tons, steam, breaker, ftz. J. T. Jones, supt.
Madethan, Chesterfield Ry. Coal Field 627.	Wate R. Gay, Boston, Mass., York, Va. Shaft, 2,000 tons, steam, broken, ftz. J. T. Jones, supt.
Powhatan, Ry. 523.	Lancaster Southwest Virginia Improvement Co., Philadelphia, Pa., R. M. Ridge, H. Wexham, pres't., George L. Estabrook, secy. and treas., C. F. E. Burdick, mgt. Cap. stk. \$750,000. Powhatan. Duff, 7,000 tons, horse, core-ovens, C. F. E. Burdick, supt.
Price's Fork, Montgomery Ry. 523.	James B. & H. Price. Brush Mountain. Slope, tunnel, horse.
Pulaski City, Pulaski Ry. 523.	Betha Zinc & Mineral Co., New York, N. Y., W. H. Smith, R. S. C. Rice, pres't., George M. Holst, mgt. and secy., C. H. Fisher, treas., J. A. Johnston, mgt. Cap. stk. \$2,000,000. Adams. Tunnel, 15,000 tons, steam, W. H. C. Rice, supt.
" "	Prink Rock Coal & Iron Mining Co., George W. Van Brugh, pres't. and gen. mgt., Phil. L. Grasty, secy. and treas., Cap. stk. \$200,000. Open pit, tunnel, slope, ftz.
Lancaster, Ry. 523.	Wise Greeno Ridge Coal Co., H. S. Loomis, pres't. and mgt., W. F. Miller, secy., H. B. Slaughter, treas., Cap. stk. \$20,000. Lancaster. Slope, 2,000 tons, steam, horse. F. H. Johns, supt.
Waterpock, Chesterfield Ry. 279.	L. Martin. Cap. \$8,000. Raccoon, Ry. & Hay. Shaft, slope, 2,000 tons, steam.

GOLD AND SILVER.

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
Candora, Montgomery Ry. Christiansburg 523.	Varbrough & Walters. Fluorine, silver. Open pit.
Richardson, Culpeper Ry. Brandy Station 627.	Powhatan Land & Mining Co., Fredericksburg, Va., Geo. W. Stoner, pres't., L. G. Johnson, sec'y., L. B. Landmesser, treas., L. G. Johnson, mgt. Cap. stk. \$200,000. Powhatan, gold. Shaft, open pit, plant, 15,000 tons. Fl. and extra. Fl. abundant. James P. Smith, supt.

GYPSUM

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
Chatham Hill Ry. Glade Spring 523.	J. M. Gwynn. Cap. \$2,000. Cave, gypsum. 400 tons; horse.
Lanmont Ry. Marion 523.	Buchanan & Co. Open pit, 200 tons; hand.
Saltville Ry. 408.	Buena Vista Plaster Co. F. S. Robertson, pres.; W. B. Robertson, secy., treas. and mgr. Cap. stk. \$100,000. Buena Vista, gypsum. Shaft, 5,000 tons; steam, water, horse; plaster mill, capacity 4,000 tons.

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
Aust. Ry. 525.	Wythe Indian Camp Mining Co., Baltimore, Md., 230 Third Hill av. Theo. F. Wilson, pres.; Julius Stern, secy. and treas. Cap. stk. \$100,000. Indian Camp, hematite. Slope and open pit; hand. W. R. Gallimore, supt.
Backbone Ry. 132.	Alleghany Frank Lynum, Covington, Va. Cap. \$50,000. Brown hematite. Tunnel, 18,500 tons. John S. Ham, supt.
Big Stone Gap Ry. 408, 687.	Wise Appalachia Steel & Iron Co. E. J. Bird jr., pres.; M. T. Ribenour, secy. and treas.; E. J. Bird, v.-pres. and gen. mgr. Cap. stk. \$450,000. Red Fossil, iron ore. Tunnel, 15,000 tons; horse, hand.
Christiansburg Ry. 553.	Montgomery King Mining Co., Roanoke, Va. Henry King, pres. and mgr.; Wm. S. Todd, secy. and treas. Cap. stk. \$90,000. Kingston, red hematite. Open cut, 80,000 tons; steam, Joseph McNight, supt.
Covington Ry. Backbone 132.	Alleghany Frank Lynum, Brooklyn, N. Y., 50 Rensselaer st. Brown hematite, 80,000 tons. John S. Ham, supt.
Fvington Ry. 622.	Campbell Dungee, Weinman & Co., Lynchburg, Va. Cap. \$50,000. Hewitt, barytes. Shaft, 2,500 tons; steam, James Davey, supt.
Ferris Ry. 132.	Augusta Aurora Mining Co. Peter McLaren, propr. Brown hematite. Tunnel, 5,000 tons; gravity, George Ritchie, supt.
Foster's Falls Ry. 523.	Wythe Foster's Falls Mining & Manufacturing Co. M. B. Tate, pres.; John W. Robinson, secy. and treas.; J. J. Baker, mgr. and supt. Foster, Hammer. Open pit, 25,000 tons; steam, water.
Glen Wilton Ry. 132.	Botetourt D. G. Cook, Wrightsville, Va. T. D. Kanfield, mgr. Wilton. Tunnel, 30,000 tons; horse; furnace, capacity 15,000 tons; R. J. Ruhl, supt.
Iron Gate Ry. 132.	Alleghany Alleghany Iron Co., New York, N. Y., 29 Broadway. F. C. Dymally jr., pres.; F. C. Jones, mgr. Merry Hill, fossil. Tunnel, open pit, 75,000 tons; steam, furnace.
Wander Ry. 523.	Wythe Pennsylvania Zinc & Iron Co., Roanoke, Va. Henry C. Stipes, pres.; E. Schaefer, secy. and treas.; J. H. Battell, mgr. Cap. stk. \$200,000. Iron, zinc ore (developing).
Loesville Ry. Lynch's Sta. 622.	Campbell Dungee, Weinman & Co., Lynchburg, Va. Cap. \$50,000. Hammer, barytes. Shaft, 1,500 tons; steam, Albert Withers, supt.
Liberty Furnace Ry. Shenandoah 12.	Shenandoah Liberty Iron Co., Philadelphia, Pa., 47 Drexel Bldg., Fifth and Chestnut sts. H. H. Aard, pres.; S. L. Gilen, secy. and treas.; M. M. Campbell, mgr. Cap. stk. \$50,000. Iron ore. Shaft, tunnel, slope, 25,000 tons; steam, water, horse, furnace, capacity 15,000 tons.
Lowmont Ry. 132.	Alleghany Lowmont Iron Co. of Virginia. A. S. Winslow, pres.; H. M. Bell, secy.; Edward A. Low, treas.; Henry G. Merry, mgr. and supt. Cap. stk. \$600,000. Brown hematite. Shaft, tunnel, 75,000 tons; steam.
Marion Ry. Iron Min. station 132.	Alleghany Alleghany Iron Mountain Mining Co., Covington, Va. E. L. Parrish, pres.; Frank Lynum, secy. and treas.; John S. Ham, mgr. and supt. Cap. stk. \$30,000. Iron Mountain, brown hematite. Open cut, 25,000 tons.
Marion Ry. 52.	Smith Frank Lynum, Covington, Va. Cap. \$100,000. Dolly Ann, brown hematite. Open cut, 25,000 tons. John S. Ham, supt.
Marion Ry. 52.	Smith Marion Iron Ore Co., New York, N. Y., 52 Broadway. P. S. Swan, pres.; Charles T. Darling, secy. and treas.; John S. Appertson, mgr. Cap. stk. \$250,000. Carrier Valley, brown hematite, manganese. Open cut, shaft, 20,000 tons; steam.
Mineral City Ry. 132.	Louisa Arminius Copper Mines Co., New York, N. Y., 71 Wall st. Sol. Dexter, pres. and treas.; Alex. Gritterman, secy.; Wm. H. Adams, mgr. Cap. stk. \$500,000. Arminius, pyrites. Shaft, 35,000 tons; steam. Henry M. Baretteff, supt.
"	" Washington Pyrite Co., Washington, D. C., 218 F st. Eugene B. Payne, pres.; Walter I. Bishop, secy. and supt.; C. F. Griffin, treas. and mgr. Cap. stk. \$500,000. Goodwin, Hunter, pyrites. Shaft; steam (developing).
Pitts. Bldg. Ry. 622.	Pittsylvania Dungee, Weinman & Co., Lynchburg, Va. Cap. \$50,000. Berger, barytes. Shaft, 600 tons; steam. C. E. Woody, supt.
Reed Island Ry. Kanawha 53.	Pulaski Eva Mining & Manufacturing Co., Pulaski City, Va. J. F. Moore, pres.; L. S. Caffee, secy. and treas.; Ellis Collier, mgr. and supt. Cap. stk. \$300,000. Eva, hematite. Open pit, 7,000 tons; steam, horse.
Rye Valley Ry. Marion 52.	Smith Joseph E. Scott. Spring, brown hematite, manganese. Open pit, hand.
"	" John M. Williams. Sugar Hill, brown hematite, manganese. Open cut, hand.
Toshes Ry. 622.	Pittsylvania Dungee, Weinman & Co., Lynchburg, Va. Cap. \$50,000. Parker, barytes. Shaft, 1,500 tons; steam. C. F. Woody, supt.

LEAD AND ZINC

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Austinville, Ky. 523.		Wythe	Wythe Lead & Zinc Mine Co., Maj. D. F. Graham, pres., Dr. R. W. Sanders, secy., John C. Rapet, Treas., mgr. and supt. Cap. stk. \$100,000. Wythe lead, zinc. Shaft, tunnel open pit. 5,000 tons. electricity, water, furnace.	
Bertha, Ky. 523.		Wythe	Bertha Zinc & Mineral Co., New York, N. Y., 33 Wall st. R. S. Clark, pres., Geo. de M. Holstein, auditor; C. H. Tinsley, Treas., J. A. Johnston, mgr. Cap. stk. \$5,500,000. Bertha, zinc. Shaft, tunnel, 16,000 tons; steam, furnace. Wm. H. Case, supt.	
Sugar Grove, Ky. Mar 1902		Shively	Rye Valley Mining Co., Baltimore, Md., M. E. Coughlin, pres., Wm. C. Carman, secy., Louis Cassard jr., Treas., Hampton Woods, mgr. and supt. Cap. stk. \$500,000. Lead. Shaft. steam.	

MANGANESE

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BRISTLE BURNERS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Houston Mines, Belmont Ky. Mar 1902			Penn Mangani se Co., Pittsburgh, Pa., 5 Fifth av., William White jr., pres., W. R. Cullford, secy. and Treas., Houston, Shaft, steam. R. S. Neal, supt.	
Marion, Ky. 523.		Shively	Staley Creek Manganese & Iron Co., A. C. Cummings, pres., John S. Apperson, secy. and Treas., John M. Preston, mgr. Cap. stk. \$45,000. Carter Valley, Pond Mount, brown hematite, manganese. Open cut, shaft.	

MICA

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Amelia C. H. Ky. 522		Amelia	Richmond Mica Co., Richmond, Va., 100 Main st., J. L. Williams, pres., L. J. W. S., secy. and Treas., John C. Shelton, mgr. Cap. stk. \$20,000. Champion. Shaft, furnace, steam in L. J. Gonzales, supt.	

MINERAL PAINT

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Stanhope, Ky. Mar 1902		Page	Oxford Ochre Co., New York City, 24 Liberty st., C. S. Lough, pres., R. M. Bennett, secy. and Treas., C. B. Foster, mgr. Cap. stk. \$25,000. Oxford Mines, ochre, ochre. Shaft, furnace, and pig, 10,000 tons. steam.	

PHOSPHATE

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Marysville, Ky. Mar 1902		Hendron	Marysville Hill Map's Phosphate Co., New York, N. Y., 10 Broadway st., H. J. S. Hill, pres., J. C. Gardner, secy., T. H. W. S., Treas., J. H. Bond, mgr. Cap. stk. \$25,000. Mary Phosphate. Shaft. steam, pit, 7,000 tons. steam, hydraulic.	

SALT

LOCATION OF MINE OR WELL RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Saltville, Ky. 521		Washington	Benton Salt & Plaster Co., George W. Palmer, pres. and Treas., Chas. S. Palmer, secy. and mgr. Cap. stk. \$1,000,000. Saltville, rock salt and common. Wells. Pits. steam.	

SLATE

LOCATION OF QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF QUARRY, KIND OF SLATE, KIND OF QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF QUARRY SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Attonia Ry. 122.		Rockingham	Big Quarry Slate Co., J. R. Williams, pres.; E. R. Williams, treas., gen. mgr. and supt.	Cap. stk. \$50,000. Big Quarry. Open pit, steam.
"		"	J. R. Williams & Co.	Cap. \$300,000. Old Nicholas. Open pit, 9,500 tons; steam; mill.
Keswick Ry. 132.		Albemarle	W. B. Lupton & Co., Pittsburg, Pa., 1012 Pennav.	Keswick. Open pit, steam. E. U. Bragdon, supt.
One Bank Ry. Attonia 132.		Rockingham	J. J. Roberts & Co.	Open pit, 2,000 tons; steam.
"		"	J. C. Senger.	Open pit, steam, horse (developing).
Snowden Ry. 132.		Amherst	Williams Bros. Slate Co. J. W. Watts, pres.; Hugh Williams, secy.; J. Gordon Payne, treas.; W. E. Williams, mgr. and supt.	Cap. stk. \$100,000. Open pit, steam (developing).

SOAPSTONE

LOCATION OF MINE OR BASE, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BASE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Clinton Station Ry. 122.		Fairfax	Old Dominion Stone Co., Philadelphia, Pa., 1113 Arch st.	D. Z. Evans, pres. and treas.; D. Z. Evans, Jr., secy.; I. H. Evans, mgr. Cap. stk. \$20,000. Old Dominion, soapstone and sandstone. Open pit, 1,000 tons; steam; mill. John E. Hart, supt.

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Buchanan Ry. 132, 523.		Botetourt	George O. Houston, Roanoke, Va.	B. M. Paine, mgr. Buchanan, limestone. 20,000 tons.
"		"	John Sexton.	Cap. \$5,000. Buchanan, limestone. Open pit, 25,000 tons; steam; mill. T. D. Sexton, supt.
Christiansburg Ry. 723.		Montgomery	Virginia Lime & Cement Co. A. A. Phlegar, pres.; M. C. Pelton, treas. and mgr.	Cap. stk. \$100,000. Limestone. Open pit, 8,000 tons.
Charlewood Ry. 132		Palaski	B. S. Price & Co.	Limestone. Open pit, hand, mill.
Craigsville Ry. 132.		Augusta	Coral Marble Co., Staunton, Va.	R. P. Bell, mgr. Cap. stk. \$500,000. Marbledale, marble. Open pit, 500 tons; hand, steam, mill.
Emmets Ry. Springwood 132.		Botetourt	Beckley Marble Development Co. J. H. H. Eggart, pres.; Turner McDevell, secy.; James Godwin, treas.; Alfred Beckley, mgr.	Cap. stk. \$300,000. Beckley, lithographic stone, marble. Steam, marble mill (developing).
"		"	Emmets Stone & Marble Co. C. M. Lundford, pres.; C. H. Vane, secy.; Wm. B. Sumner, treas.	Cap. stk. \$100,000. Lithographic stone, marble. Slope, 500 tons; steam, stone and marble mills. W. Clement, supt.
"		"	S. F. Patterson.	Limestone. Open pit, limekiln, capacity 20,000 bbls.
"		"	Virginia Black Marble Co. R. T. Herndon, pres.; W. M. Indany, secy.; James Godwin, treas.; J. W. Clarkson, mgr.	Cap. stk. \$300,000. Marble. Open pit, steam, mill. W. Clement, supt.
Fredricksburg Ry. 101, 110		Spottsylvania	Bradgewater & Forge Granite & Lumber Co. J. E. Picklen, pres. and treas.; H. Von Schon, secy. and mgr.	Cap. stk. \$100,000. Granite. Hand, electricity, mill.
Granite Ry. 122		Chesterfield	Middendorf & Donald, Richmond, Va.	132 and 131 Virginia st. Cap. stk. \$80,000. Granite. 7,000 tons; steam, mill.
Herndon Ry. 122		Fairfax	Herndon Stone Co., Washington, D. C.	Geo. W. Hunter, mgr. Sandstone. Open pit (developing).
Korah P. O. 1, Richmond Ry. 132.		Henrico	Richmond Granite Co., 911 Main st., P. O. Box 158.	H. P. Einswanger, pres.; John Klemm, secy. and treas. Cap. stk. \$150,000. Granite. Open pit, 25,000 tons; steam, hand.
Lowmoor Ry. 132.		Alleghany	Lowmoor Iron Co. A. S. Winslow, pres.; S. M. Bell, secy.; Edward A. Low, treas.; Henry Merry, mgr.	Cap. stk. \$60,000. Low Moor, limestone. Tunnel, 1,500 tons; steam. J. E. Williams, supt.
Lynchburg Ry. 523, 132		Campbell	James M. Casey, Washington and Jefferson sts.	Casey, limestone. 10,000 tons; horse, hand, mill. W. H. Hall, supt.
"		"	Lynchburg Construction Co., 311 Main st.	Charles L. Heath, pres.; S. M. Williamson, secy. and treas.; R. Taylor Cleaves, mgr. Cap. stk. \$100,000. Amherst, gneiss and serpentine. Slope, open pit, 21,000 tons; steam, horse, mill. Robert Larkey, supt.
Manassas Ry. 122.		Prince William	John R. Tillett, P. O. Box 101.	Stonewall, sandstone. Open pit, 7,000 tons; steam, horse, hand.
Manchester Ry. 122		Chesterfield	Standard Granite Co., Richmond, Va., 230 W. Cary st.	James Netherwood, pres.; H. F. Smith, treas., mgr. and supt. Cap. stk. \$15,000. Standard, granite. Open pit, 3,000 tons; steam.
Marion Ry. 72.		Smyth	Marion Mining & Marble Co., Richmond, Va., care City Bank.	John S. Apperson, pres.; Edwin A. Palmer, secy. and treas. Cap. stk. \$10,000. Killinger, Scott and 2 others. Open pit (developing).

STONE, MARBLE, GRANITE AND ONYX (CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERILLS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
Name, Botetourt (F.O.) Botetourt Ry. 523.	Ronoke Black Marble Co., Ronoke City, Va., Terry Bldg., E. L. Greider, pres., H. H. Greider, secy., Wm. F. Winch, treas., S. J. Reed, mgr., Cap. stk. \$100,000. Marble. Open pit, steam-developing.
Petersburg, Dinwiddie Ry. 523, 575, 623.	Dr. D. W. Lassiter, 13 Tabbs st., East View, grant v., Slope; hand.
" " "	Petersburg Granite Quarrying Co., New York, N. Y., 28 Wall st., Wm. E. Dobbell, pres., Egerton Brown, secy., J. O. Bowditch, treas., Cap. stk. \$75,000. Granite. Steam, mill.
Free's Forks Montgomery Ry., Christiansburg 523.	Stewart Price, Millstone. Open pit, 150 tons, hand.
" " "	M. S. Price & Bro., Cap. \$1,000. Millstone. Open pit, 50 tons, hand.
Pulaski City, Pulaski Ry. 523.	Miller & Warden, Cap. \$20,000. Peak Creek, sandstone. Open cut, hand, steam. J. K. Warden, supt.
Rocky Point, Botetourt Ry. 132.	McCormack Granite Co., E. W. Stevens, gen. mgr., McCormack, limestone. Open pit, 60,000 tons, steam, mill.
Waynesboro, Augusta Ry. 132, 523.	Latham Milling Co., Alexandria, Va., A. G. Uhler, pres., A. M. Gorman, secy. and gen. mgr., George Wise, treas., Cap. stk. \$100,000. Lithographic stone, marble, other, slate. Water, steam, electricity, horse.
Winston, Culpeper Ry. 583.	L. D. Winston, Granite, sandstone.

SULPHUR

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
Sulphur Mines, Louisa Ry. 132.	Sulphur Mines Co. of Virginia, Richmond, Va., Wm. G. Cronshaw, pres., Wm. G. Cronshaw, Jr., v. pres., S. D. Cronshaw, secy. and treas., J. C. Petty, mgr. and supt., Cap. stk. \$40,000. Pyrites. Shaft, steam.

TIN

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
Betty's, Clarke Ry. Boyce 523.	Virginia Tin Mining & Smelting Co., Winchester, Va., Wm. H. S. C., pres., Charles L. Nelson, secy. and treas., J. M. Tinsone, mgr. and supt., Cap. stk. \$1,000,000. Soot, open pit, hand, developing.

SEE ALSO SUPPLEMENTARY LIST

WASHINGTON

COAL—BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Black Diamond Ry. 179.	King		Black Diamond Coal Mining Co., San Francisco, Cal., 450 Main st. P. B. Cornwall, prest. and mgr. Geo. Staacke, secy., Bank of California, treas. Cap. stk. \$500,000. Black Diamond. Slope, 132,000 tons; steam and electricity. Morgan Morgans, supt.	
Black River Ry. Black River Junction 343.	King		Black River Coal & Transportation Co., Seattle, Wash., cor. Commercial and Main sts. L. M. Garrison, prest., N. H. Martin, secy. and treas.; W. B. Spencer, mgr. Cap. stk. \$30,000. Black River. Slope, hand-developing. Wm. K. Reese, supt.	
Blue Canyon Ry. New Whatcom 50.	Whatcom		Blue Canyon Coal Mining Co., New Whatcom, Wash. M. E. Downs, prest., John T. Murphy, v.-prest.; J. H. Bichel, secy. Cap. stk. \$300,000. Blue Canyon. Slope; steam; washer (developing). Wm. J. Watkins, supt.	
Bucoda Ry. 529.	Thurston		North-Western Coal & Transportation Co., Portland, Ore. Samuel Conlier, prest.; W. W. Humes, secy.; C. W. Conlier, mgr. Cap. stk. \$250,000. Bucoda. Slope, 12,000 tons; steam and horse. Thos. Ismaj, supt.	
Burnett Ry. 529	Pierce		South Prairie Coal Co., San Francisco, Cal., 308 California st. John M. Whitworth, prest.; T. H. Henderson, secy. and treas.; C. H. Burnett, mgr. and supt. Cap. stk. \$300,000. South Prairie. Slope, 50,000 tons; steam.	
Carbonado Ry. Dooty 529.	Pierce		Carbon Hill Coal Co., San Francisco, Cal., cor. Fourth and Townsend sts. Charles F. Crocker, prest.; Frank S. Dooty, secy. and treas. Cap. stk. \$200,000. Carbon Hill. Tunnel, 175,000 tons; steam and water, washer. D. T. Davies, supt.	
Castle Rock Ry. 529.	Cowlitz		Castle Rock Mining Co., Portland, Ore., 66 N. Second st. L. Nicolai, prest.; J. A. Newell, secy. and supt.; A. W. Oelbrook, treas. Castle Rock. Tunnel, steam.	
Cokedale P. O. Franklin Ry. 179.	King		Green River Coal & Coke Co., Seattle, Wash., Burke Bldg. John H. Bryant, prest., John Craig, secy.; A. S. Dunham, treas.; Wesley Wilson, mgr. Cap. stk. \$1,000,000. Green River. Slope; breaker; washer, 200 coke ovens under construction (developing). Geo. A. Brooke, supt.	
Dunham Ry. 529.	King		Pacine Investment Co., San Francisco, Cal., 316 California st. Charles McCulloch, prest.; Alexander H. Small, secy.; Robert Young, mgr. Dunham. Tunnels, steam and horse.	
Franklin Ry. 179.	King		Oregon Improvement Co., Seattle, Wash., 301 Burke Bldg. W. H. Starbuck, prest.; W. T. Wallace, secy.; C. B. Tedcastle, treas.; C. J. Smith, mgr. Franklin. Slope, 120,000 tons; steam, breaker. T. B. Cory, supt.	
Gilman (P. O. Olney) Ry. 635.	King		Seattle Coal & Iron Co., Seattle, Wash., Burke Bldg. John H. Bryant, prest., John Craig, secy.; A. S. Dunham, treas.; Wesley Wilson, mgr. Cap. stk. \$500,000. Gilman. Slope and tunnels, 112,000 tons; steam. J. L. Farker, supt.	
Jennings P. O. and Ry. Sedro 278. 665.	Skagit		Skagit Coal & Transportation Co., Fairhaven, Wash. C. H. Larrabee, prest. Fairhaven. Tunnel, 6,000 tons; steam, coke oven. R. Jennings, supt.	
New Castle Ry. 179.	King		Oregon Improvement Co., Seattle, Wash., 301 Burke Bldg. W. H. Starbuck, prest.; W. T. Wallace, secy.; C. B. Tedcastle, treas.; C. J. Smith, mgr. Coal Creek. Slope, 200,000 tons; steam, breaker. T. B. Cory, supt.	
Nidbock Mine (P. O. Snoqualmie) Ry. 529.	King		Snoqualmie Coal & Coke Co., Tacoma, Wash., 607 Fidelity Bldg. A. M. Cannon, prest. and treas.; C. B. Nidbock, secy. and mgr. Cap. stk. \$1,000,000. Nidbock. Tunnel, 139,000 tons; gravity, washer Andrew Stephenson, supt.	
Palmer Ry. 529.	King		Green River Coal & Coke Co., Seattle, Wash., Burke Bldg. J. H. Bryant, prest.; A. S. Dunham, v.-prest.; J. Craig, secy.; J. E. Cox, treas.; W. Wilson, mgr. Cap. stk. \$1,000,000. Green River. Shaft and slope; steam (developing). W. J. P. Williams, supt.	
Pittsburg No P. O. Ry. 529	Pierce		Aene Tunnel, Tacoma, Wash. C. B. Nidbock, prest.; A. L. Horner, v.-prest.; F. M. Wade, treas.; S. J. Maxwell, secy. Cap. stk. \$15,000. Aene. Tunnel, 50,000 tons. T. W. De Lame, supt.	
Rocky Ridge (P. O. Silver Beach) Ry. 50, 605.	Whatcom		Rocky Ridge Coal Co., Whatcom, Wash., Bellingham Hotel. H. A. Moore, prest. and mgr.; C. C. Hinson, secy.; Puget Sound Loan & Trust Co., treas. Cap. stk. \$200,000. Rocky Ridge. Slope, steam (developing). R. Blackwell, supt.	
Tacoma Ry. 529, 533, 570.	Pierce		Cornellsville Coal & Coke Co., cor. Twenty-third and Adams, C. W. Griggs, prest.; Geo. Browne, secy.; A. G. Foster, treas. Cap. stk. \$500,000. Cornellsville (developing).	
Wilkeson Ry. 529.	Pierce		Tacoma Coal Co., Tacoma, Wash., Hotel Erie, Room 1. A. C. Smith, prest.; Geo. O. Kelly, secy. Cap. stk. \$200,000. Tacoma. Slope, 60,000 tons; steam, breaker, washer, 30 coke ovens, 3,000 tons; L. M. Kelley, supt.	
"	"		Wilkeson Coal & Coke Co., Tacoma, Wash., Twenty-third and Adams sts. Henry Howitt, prest.; P. D. Norton, secy. and treas.; Hugh White, mgr. Cap. stk. \$250,000. Nos. 1, 2, 3 and 4. Tunnel, 150,000 tons; steam, breaker, washer, 75 coke ovens. P. C. Forrester, supt.	

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Abacostes Ry. 606.	Skagit		Ruby & State Creek placer Mining Co., E. S. Dodge, prest.; Benjamin Goodwin, secy.; Geo. W. Randall, treas. M. A. Fulk, mgr. and supt. Cap. stk. \$250,000. Gold, Placer, water.	
Albion Ry. 605.	Snohomish		Stollgrunish Mining Co., John Weersmiller, prest.; Chas. Wellman, secy.; Vic. Thorp, treas.; John Benfner, mgr. Cap. stk. \$200,000. Conzo and Domingo, gold and silver. Tunnel, refractory (developing).	

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OR 1000 TONS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN	AND	COUNTY.	
Rossburg		Stevens	Pittwood & Emburage-Jessens, Young American and Bonanza, silver and lead. Tunnel, 16,000 tons, refractory, hand.
Chelan		Okanogan	Cascade Range Mining Co., Waterville, Wash., A. E. Case, pres., R. W. Starr, secy., A. F. Greene, treas., A. H. Murphy, mgt., Cap. stk. \$1,500,000. Fourteen claims, gold and silver. Hand development. W. R. Robinson, supt.
Chewelah		Stevens	Cooms, Shafter & Thomson, Spokane, Wash., 267 Rookery, Eagle and Fireoka, silver and lead. Shaft, free and refractory, steam. A. R. Thomson, supt.
Clifton		Kittitass	Culver Gold Mining Co., Seattle, Wash., 549, 520, 521 Bailey Bldg. Henry Bash, pres., Edwin Hall Warner, secy., Ezra W. Clark, treas., Joseph L. Warner, mgt. and supt. Cap. stk. \$200,000. Culver, gold. Tunnel, free and refractory, steam, to stamps and concentrator.
Colville		Stevens	Dead Medicine Mining Co., Spokane, Wash., George Turner, pres., T. N. Peyton, secy., treas. and supt. Cap. stk. \$250,000. Dead Medicine, silver and lead. Shaft and tunnel, free and refractory, steam.
"		"	Old Dominion Mining Co., Spokane, Wash., W. R. Newport, pres. and mgt., S. Oppenheimer, secy., E. J. Dyer, treas., Cap. stk. \$500,000. Old Dominion, silver and lead. Shafts and tunnels, 10,000 tons, free, steam, A. Hardy, supt.
"		"	Rustler Mining Co., Spokane, Wash., H. L. Houghton, pres., L. N. Peyton, secy. and treas. Cap. stk. \$250,000. Rustler, silver. Shaft, refractory.
Condonville		Okanogan	Bridgeport Mining & Milling Co., Bridgeport, Conn., for Gold and Middle sts., Frank L. Rodgers, pres., E. P. Wheeler, secy. and treas., E. P. Wheeler, mgt. and supt. Cap. stk. \$300,000. Thompson, Nevada, Montana and Columbia, gold and silver. Shaft and tunnel, free, hand and horse.
Condonville		Okanogan	A. C. Burnham, Summit, gold and silver. Tunnel, free, hand.
"		"	Washington Central Mining & Reduction Co., L. Irwin Baldwin, pres., H. A. Wilder, secy., treas. and mgt., Cap. stk. \$300,000. Gold King, Kenne, Monte Cristo and B. Bonanza, gold, silver, copper. Tunnel, 5000 tons, refractory, water, to stamps. Elmer Patterson, supt.
Ellensburg		Kittitass	Columbia Gold Mining Co., for Fourth and Pearl sts., W. R. Abrams, pres. and treas., L. C. Pope, secy., M. S. Smith, mgt. Cap. stk. \$300,000. Oakton, gold. Plant, water, developing.
Galena		Spokane	Western Washington Mining & Manufacturing Co., Tacoma, Wash., 1004 Twelfth st., E. C. Brown, pres., M. H. Nichols, secy. and treas., C. A. Brown, mgt. and supt. Cap. stk. \$100,000. Green Lake, gold, silver and copper. Tunnel, refractory, water, developing.
Golden		Okanogan	Wanquet Lake Mining & Milling Co., Spokane, Wash., Joseph Hanauer, pres., N. D. Hanauer, secy., H. W. Holly, treas., J. W. Wegner, mgt. and supt. Cap. stk. \$300,000. Spokane and others, gold and silver, borax, iron, free, steam, to stamps, 2 concentrators.
Kettle Falls		Stevens	Silver Queen Mining Co., John F. Sherwood, pres., mgt. and supt., James J. Budd, secy., C. H. Nelson, treas., Cap. stk. \$200,000. Silver Queen, silver and lead. Shafts, free, hand.
Liberty		Kittitass	Douglas & Corfield Mining & Smelting Co., Seattle, Wash., R. A. Ross, John F. Plummer, pres., Leonard Howarth, secy. and treas., F. W. Dunn, mgt. Cap. stk. \$200,000. Red Rock and Van Eagle, gold. Shaft, 5000 tons, free, water, to stamping. John Ross, supt.
Loonies		Okanogan	Gold Finch Mining Co., Seattle, Wash., Fred F. Soule, pres., J. S. Schultz, secy. and treas., W. R. Moore, mgt. and supt. Cap. stk. \$300,000. Gold Finch, gold. Shaft and tunnel, free, electricity.
"		"	Keystone Mining & Milling Co., Spokane, Wash., 200 Riverside and Howard sts., F. J. Murray, pres., M. H. White, secy., A. C. Dwyer, treas., Cap. stk. \$100,000. Dwyer, detrital and Keystone, gold and silver. Shaft, free, refractory, hand. William Harris, supt.
Loop Loop		Okanogan	First Thought Silver Mining Co., Portland, Ore., M. M. Sontag, Jonathan Bourne, pres., Herbert F. Thompson, secy., Portland Savings Bank, treas., Cap. stk. \$300,000. First Thought, silver. Tunnels, water.
Metallum		Kittitass	Gold Nugget Mining Co., Port Townsend, Wash., William Peters, pres., Walter Rees, secy. and treas., E. C. Fisher, mgt. and supt. Cap. stk. \$100,000. Black, gold. Open pit, plant, water.
"		"	Swank Creek Mining Co., Tacoma, Wash., 11 Thirteenth st., W. R. Andrews, pres. and mgt., W. W. Bartley, secy., Cap. stk. \$100,000. Gold, placer, water, to E. R. Schuch, supt.
Mt. Rainier		Stevens	Consolidated Bonanza Mining & Smelting Co., Seattle, Wash., E. S. Oakley, pres. and mgt., C. H. Armstrong, secy. and supt., S. Ansley, treas., Cap. stk. \$1,000,000. Bonanza and other claims, silver and lead. Open pit and shaft, 2,000 tons, to S. Ansley, mgt. and supt., to E. R. Schuch, supt.
Monte Cristo		Spokane	Monte Cristo Mining Co., Seattle, Wash., 405 and 415 Bailey Bldg., Jos. L. Colby, pres. and treas., Charles T. Rand, secy., Wm. C. Butler, mgt., Cap. stk. \$300,000. Four claims, silver and lead. Tunnels, refractory, water and electricity, developing.
"		"	Pride of the Mountains Mining Co., Seattle, Wash., 415 Bailey Bldg., Jos. L. Colby, pres. and treas., Charles T. Rand, secy., Wm. C. Butler, mgt. and supt. Cap. stk. \$300,000. Pride of the Mountains, 7880, Galena and Pride of the Woods, silver and lead. Tunnel, refractory, water, to concentrator.
"		"	Rainy Mining Co., Cleveland, Ohio, Perry Payne Bldg., Jos. L. Colby, pres., H. C. Henry, secy., A. F. Dickerman, treas., Charles T. Rand, mgt., Cap. stk. \$300,000. Rainy, gold and silver. Tunnel, shaft and water. Wm. C. Butler, supt.
Outing		Pierce	Sultan Mining & Prospecting Co., Sultan, gold and silver. Refractory, developing. Mine in Okanogan county.

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Port Angeles	Chelan	Hurricane Hill Mining Co., F. G. Jones, prest. and supt.; L. R. Cole, secy.; J. E. Becker, treas.; J. C. Burk, mgr. Cap. stk. \$80,000. Great Western, silver and copper. Shaft and tunnel; free (developing).		
Porter Ry. 529.	Chelan	Porter Creek Consolidated Mining Co., S. S. Ford, prest.; S. R. Ford, secy.; J. W. Ray, treas.; Henry Marshall, mgr. and supt. Cap. stk. \$1,000,000. Porter Creek, gold and silver. Open pit; refractory water.		
Ruby	Okanogan	Ruby Placer Mining Co., Anacortes, Wash., G. K. Hatt, prest.; J. M. Moore, secy., treas. and mgr. Cap. stk. \$200,000. Anacortes and Dandy, gold. Placer, water. McCullough, supt.		
Ruby Ry. 529.	Snohomish	Hall Melique & Co., Anacortes, silver. Tunnel.		
"	"	Monte Cristo Development Co., Everett, Wash., Pacific av. W. F. Brown, prest. and mgr.; F. O. Cox, secy.; G. L. Brown, treas. Cap. stk. \$50,000. Eighteen claims, gold and silver (developing). R. M. Burnett, supt.		
Snohomish Ry. 552, 665.	Snohomish	Gold Eagle Mining & Milling Co., Tacoma, Wash., Stephen Holbrook, prest.; W. E. Hacker, secy. and treas.; Wm. J. Caplin, mgr. and supt. Cap. stk. \$3,000,000. Seven claims, silver. Shaft, tunnel and slope; free, water (developing).		
Snohomish Ry. 665 (16 miles).	King	Silver King Mining Co., Seattle, Wash., Sullivan Bldg., Room 54, J. S. McLain, prest. and mgr.; Oliver F. Briggs, secy. and treas. Cap. stk. \$500,000. Silver King, gold, silver and lead. Shaft and tunnel; free; water and electricity (developing).		

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Valley Ry. 625.	Stevens	Capital Mining Co., Seattle, Wash., P. O. Box 865. J. E. Porter, prest.; S. M. Allen, secy.; J. E. Houghton, treas. and supt. Cap. stk. \$300,000. Capital, limonite. Tunnel and pit, 6,000 tons.		

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMESTONES AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Chuckanut Ry. 552.	Whatcom	Rueder & Roth, New Whatcom, Wash., Roth Block, cor. Thirteenth and G sts. Cap. \$100,000. Chuckanut, sandstone. Open pit, 35,000 tons; steam, mill. Fred. Harknell, supt.		
Columbia Ry. 625.	Stevens	Columbia Marble & Granite Co., Spokane, Wash., Hyde Block, Samuel Douglas, prest.; J. W. Douglas, secy. Cap. stk. \$300,000. Marble (developing).		
Sherwood Ry. 625.	King	Smith & Green, Cap. \$20,000. Sherwood City, sandstone. Open pit, steam and water, mill. Wells Green, supt.		
Tenino Ry. 529.	Thurston	Eureka Sand Stone Co., Tacoma, Wash., cor. Thirteenth st. and Pacific av. Arthur McMullen, prest. and mgr.; F. M. Talbot, secy. and treas. Eureka, sandstone. Open pit, 48,000 tons; steam; mill.		
Valley Ry. 625.	Stevens	Washington Decorative Marble Co., Spokane, Wash., John Rigby, prest. mgr. and supt. Thos. H. Cay-anough, secy.; Jacob Hoover, treas. Cap. stk. \$250,000. Onyx, onyx, marble and granite. Open pit, steam.		
Wenatchee Ry. Ellensburg 529.	Kittitas	J. C. Steele (local), Tacoma, Wash., 202 Chamber of Commerce. Washington, onyx. Open pit.		
Whatecom Ry. 56, 665.	Whatcom	N. C. Hadley, Schome, sandstone. Open pit, hand.		
Wilkeson Ry. 529.	Pierce	Mitchell & Smith, Tacoma, Wash., 1340 Pacific av. Cap. \$20,000. Wilkeson, sandstone. Open pit, 30,000 tons, hand. Joseph T. Mitchell, supt.		

SEE ALSO SUPPLEMENTARY LIST

WEST VIRGINIA

BROMYRITE

TOWN AND COUNTY.	LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
Malden Ky. 132.	Kanawha	John M. Collins, Charleston, W. Va. Brontine, 15 tons, chloride of calcium, 700 tons. Steam.

COAL BITUMINOUS

TOWN AND COUNTY.	LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
Acme Ky. Coalburg 151, 3426.	Kanawha	Stevens Coal Co., F. L. Garrison, mgr., Cap. \$150,000. Acme, Keystone. Drifts, 20,000 tons. E. I. Stevens, supt.
Alzonia Ky. Fowhatan 526.	McDowell	Arlington Coal & Coke Co., Lynchburg, Va. T. W. Collins, prest., J. R. Gilliam, seey., and treas., James Johnson, mgr., Cap. stk. \$200,000. Developing.
Austen Ky. 12.	Preston	Austen Coal & Coke Co., Charles Jessup, mgr., Austen. Open pit, horse, hand.
Banetoff Ky. 344.	Putnam	Kanawha & Lake Erie Coal Co., Cap. \$10,000. Banetoff. Drift, 20,000 tons, horse. M. P. Francis, supt.
Caperton Ky. 132.	Fayette	New River Coke Co., Stanton, Va., P. O. Box 18. M. Eskine Miller, prest., treas. and mgr. Cap. stk. \$500,000. New River, Tunnel, 100,000 tons, hand. 15 coke ovens, capacity 50,000 tons, J. H. Ferguson, supt.
Claremont Ky. 32.	Fayette	Beckwood Coal & Coke Co., J. L. Benty, prest., E. W. Bridge, seey., John D. Campbell, treas., C. C. Benty, mgr. Cap. stk. \$85,000. Beckwood, Keystone. Open pit, 10,000 tons, horse. 11 coke ovens, capacity 12,000 tons. Wm. Hunter, supt.
Clarksburg Ky. 12, 165, 300.	Harrison	Central West Virginia Coal & Coke Co., M. L. Hutcheson, prest., M. D. Post, seey., and treas., Tra. C. Post, mgr. Cap. stk. \$200,000. Drift, steam developing.
"	"	Despard Gas Coal Co., Baltimore, Md., H. S. St. Charles St., F. Mayer, prest., A. H. Beel, seey., S. S. Carroll, treas., Cap. stk. \$250,000. Despard No. 2. Tunnel, 65,000 tons, horse, hand, 15 coke ovens, capacity 75,000 tons. Mard Lewis, supt.
Clements P. O. Seaboard Ky. 12	Marion	Hutcheson Bros. & Humel, Cap. \$200,000. Linden. Drift, 10,000 tons, horse, 50 coke ovens, capacity 25,000 tons. D. B. Brooks, supt.
"	"	Pool Coal & Coke Co., Pittsburg, Pa., 204 Fourth St. John Robinson, prest., C. W. Pool, seey., treas. and mgr. Cap. stk. \$200,000. Clements. Drift, steam, 50 coke ovens, developing. D. B. Brooks, supt.
Clifton Ky. 533, 534.	Mason	Clifton Salt & Bromine Co., George Clifton, propr., Clifton. Tunnel, 10,000 tons, horse. Thomas Middleton, supt.
"	"	Hywell & Edwards, Middleport, Ohio. Sterling. Open pit, 250 tons, hand. W. E. Edwards, supt.
Coalburg Ky. 139, 342.	Kanawha	Robinson Coal Co., John A. Robinson, prest., Ned Robinson, seey., and treas., Arthur Robinson, mgr. Cap. stk. \$200,000. Coalburg. Tunnel, horse.
Coopers Ky. 526.	Marion	Mill Creek Coal & Coke Co., Wm. Benty, prest., J. H. Cooper, seey., John Cooper, treas. and mgr., Cap. stk. \$500,000. Stollitz. Tunnel, 25,000 tons, horse, steam. 150 coke ovens, capacity 85,750 tons. Bryan Dennen, supt.
Cornith Ky. 12.	Preston	Oakland Coal & Coke Co., Baltimore, Md., 21 S. Gay st., Jacob H. Laylor, prest., F. D. Hoffman, seey., Charles J. Laylor, treas., Robert T. Anderson, mgr. and supt. Cap. stk. \$200,000. Oakland. Tunnel, 100,000 tons, horse, steam, 50 coke ovens, capacity 25,000 tons.
"	"	Snowy Creek Coal & Coke Co., Wm. T. Gates, prest., G. T. Plummer, seey., George H. Sharp, treas., Thad Williamson, mgr. Cap. stk. \$100,000. Snowy, steam developing.
Crown Hill Ky. 137.	Kanawha	Belmont Coal Co., Cap. \$250,000. Belmont. Tunnel, 50,000 tons, horse, steam. L. F. Lupton, supt.
"	"	G. W. Champ, Cap. \$20,000. Champ on. Tunnel, horse. John Battister, supt.
"	"	New York & West Virginia Coal & Iron Co., New York, N. Y., 18 Broadway, Joseph Hayes, prest., John S. Lockwood, seey., and treas., Brewer Smith, mgr. and supt. Cap. stk. \$200,000. Crown Hill. Tunnel, 20,000 tons, horse.
Dunlow Ky. 162, 525.	Wayne	Dunlow Coal Co., Frederick J. Amweg, prest., Edward C. Collins, seey., Edward J. Collins, treas. and 2nd mgr., Cap. stk. \$20,000. Open pit, horse, developing. Thomas Neebel, supt.
Engle Ky. 1 Frederick 152.	Fayette	Wyant Coal & Coke Co., Wm. Wyant, prest., Thomas Wrigton, seey., Cap. stk. \$100,000. Engle. Drift, mound. Open pit, 125,000 tons, horse, 34 coke ovens, capacity 24,000 tons.
Eastbank Ky. 3420, 152.	Kanawha	Eastbank Coal & Coke Co., Stuart M. Beck, prest., G. R. Beck, seey., and treas., J. W. Wilson, mgr., and supt., Eastbank. Tunnel, 20,000 tons, horse, 15 coke ovens, capacity 20,000 tons.
Edgewater Ky. 162.	Fayette	Carver Bros., Cap. \$150,000. Edgewater. Open pit, 100,000 tons, gravity. Enoch Carver, supt.
Elk Garden Ky. 799.	Mineral	West Virginia Central & P. R. R. Co., Baltimore, Md., H. C. Davis, prest., L. W. F. Moore, seey., and treas., T. B. Davis, mgr., Elk Garden and 6 others. Open pit, 100,000 tons, steam, horse. A. C. Bawlins, supt.
Elkhorn Ky. 523.	McDowell	Crozer Coal & Coke Co., Upland, Pa., Samuel A. Crozer, prest., James F. Weston, seey., Elkhorn and 6 others, Wm. J. Harris, mgr., Tunnel, steam, 250 coke ovens.

COAL—BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Elmo	Ry. 132.	Fayette	W. A. Burke Coal Co., Staunton, Va.	W. A. Burke, mgr. Elmo. Tunnel, 40,000 tons; horse. Ashly Burke, supt.
Fairmont	Ry. 42, 465.	Marion	Central Gas, Coal & Coke Mining Co., O. Jackson, profr., Cap. \$25,000.	Central. Open pit, 20,000 tons; horse; 16 coke ovens, capacity 7,000 tons. J. Smaus Jackson, supt.
"	"	"	Gaston Gas Coal Co., James O. Watson, prest. and mgr., John A. Boyer, secy. and treas.	Cap. stk. \$100,000. Gaston. Drift, 145,000 tons; steam, horse, electricity, breaker, washer, 60 coke ovens, capacity 23,450 tons. S. L. Watson, supt.
"	"	"	Newburg Orrell Coal & Coke Co., Baltimore, Md., 33 S. Gay st.	J. H. Lee, prest. Palatine, Aurora. Open pit, 52,000 tons; horse. Morgan D. Orr, supt.
"	"	"	West Fairmont Coal & Coke Co., Charles Mackall, prest., George DeBolt, secy.; J. E. Watson, treas. and mgr.	West Fairmont. Shaft, 150,000 tons; steam; 36 coke ovens, capacity 8,000 tons; David Evans, supt.
Farmington	Ry. 42.	Marion	Pittsburgh Gas, Coal & Coke Co., Allegheny, Pa., 125 Sandusky st.	John D. Davis, prest.; W. E. McMurray, secy.; W. E. Ross, treas. Cap. stk. \$250,000. Farmington. Shaft.
Farmington	(P. O. Clarksburg) Ry. 465.	Harrison	West Fork Coal & Coke Co., R. L. Martin, prest., Paul Farmington, secy. and treas.	Cap. stk. \$25,000. West Fork. Drift, 30,000 tons; horse; 20 coke ovens, capacity 27,000 tons. W. C. Reynolds, supt.
Fire Creek	Ry. 132.	Fayette	Fire Creek Coal & Coke Co., M. Erskine Miller, prest., secy. and treas., G. C. H. Caperton, mgr. and supt.	Cap. stk. \$100,000. Fire Creek. Tunnel, 100,000 tons; 18 coke ovens, capacity 35,000 tons.
Fleming	Ry. 523.	Wayne	Coudale Mining & Manufacturing Co., Ed. Coates, prest.; W. Henning, secy.; H. J. Tondy, treas. and mgr.	Cap. stk. \$25,000. Coudale. Open pit, horse developing. L. T. Cook, supt.
Freeman's	Ry. 523.	Mercer	Booth-Bowen Coal & Coke Co., Wm. Booth, prest., J. P. Bowen, v.-prest. and supt., Harry Bowen, secy.; James Booth, treas. and mgr.	Cap. stk. \$75,000. Booth-Bowen. Tunnel, 198,174 tons; horse; steam; 91 coke ovens, 12,200 tons coke.
Glen Falls	(P. O. Clarksburg) Ry. 460.	Harrison	Glen Falls Coal & Coke Co., Edmund Morgan, prest., E. F. Moore, secy.	Cap. stk. \$150,000. Glen Falls.
Goodwill	Ry. Brannwell 523.	Mercer	Louisville Coal & Coke Co., R. T. Watts, prest., Justus Collins, secy., treas. and mgr., C. W. Seaman, secy. and treas.; R. R. Goodrich, mgr.	Cap. stk. \$20,000. Louisville. Drift, 110,000 tons; steam, horse; 75 coke ovens, capacity 27,000 tons. Wm. Gamplin, supt.
Hartford City	Ry. 533, 534	Mason	Jubling Coal Co., Wm. Jubling, prest. and mgr., Oswald Jubling, secy. and treas.	Cap. stk. \$25,000. California. Slope, 30,000 tons; steam. Richard Turnbull, supt.
"	"	"	Liverpool Salt & Coal Co., A. E. Smith, prest. and treas., Charles Clinton, secy. and mgr.	Cap. stk. \$15,000. Tunnel, 15,000 tons; horse. Harry Hart, supt.
Kyle	Ry. Elkhorn 523.	McDowell	Elk Ridge Coal & Coke Co., J. H. Brannwell, prest., C. W. Seaman, secy. and treas.; R. R. Goodrich, mgr.	Cap. stk. \$300,000 developing.
Lundgren	Ry. 523.	McDowell	Shawnee Coal & Coke Co., Brannwell, W. Val. L. A. Welch, prest., J. C. Freeman, secy. and treas., W. R. Graham, mgr.	Cap. stk. \$100,000. Tunnel, steam. W. T. S. Jones, supt.
McDowell	(P. O. and Ry. Elkhorn 523.	McDowell	Eureka Coal & Coke Co., R. H. T. Adams, prest., Allen W. Talley, secy. and treas., L. E. Tierney, mgr.	Cap. stk. \$100,000. Eureka. Tunnel, steam.
"	"	"	Greenbrier Coal & Coke Co., Justus Collins, prest., J. W. Jones, secy. and treas., Hugh Jones, mgr.	Cap. stk. \$100,000. Tunnel. Capacity, 100,000 tons; steam.
Madden	Ry. 342, 132	Kanawha	Pioneer Coal Co., Cincinnati, Ohio, tool of Broadway. A. Montgomery, prest., J. B. Lovell, secy. and treas., J. J. Lovell, mgr.	Cap. stk. \$150,000. Slope, 125,000 tons; steam. John Holder, supt.
Mason	Ry. 533, 534	Mason	Hope Salt & Coal Co., Edward Edwards, prest., D. C. Davis, secy. and treas.	Cap. stk. \$20,700. Hope. Tunnel, 150,000 tons; horse. Henry Williams, supt.
Maybary	Ry. 523	McDowell	Elkhorn Coal & Coke Co., E. Barlow, prest. and mgr.; A. D. Robertson, secy. and treas.	Cap. stk. \$100,000. Open pit, 100,000 tons; horse; 100 coke ovens, capacity 20,000 tons. J. A. Cartwell, supt.
"	"	"	Norfolk Coal & Coke Co., Stuart M. Buck, prest., E. J. Hutchinson, v.-prest., Joseph S. Clark, secy. and treas.	Cap. stk. \$200,000. Norfolk. Tunnel, 125,000 tons; steam, 125 coke ovens, capacity 40,000 tons.
"	"	"	Norfolk Coal & Coke Co., Stuart M. Buck, prest., mgr. and supt.; J. S. Clark, secy. and treas.	Cap. stk. \$200,000. Norfolk. Tunnel, 150,000 tons; horse; steam, 172 coke ovens, capacity 50,000 tons.
Monongah	Ry. 465	Marion	J. S. Camden, prest., J. E. Sands, secy. and treas., R. D. Spillman, mgr.	Cap. stk. \$200,000. Monongah. Slope, 420,000 tons; electricity, breaker, washer, 320 coke ovens, capacity 125,000 tons. M. G. Tyler, supt.
Montana Mines	Ry. 42.	Marion	Montana Coal & Coke Co., James O. Watson, prest., George DeBolt, secy., J. E. Watson, treas. and mgr.	Cap. stk. \$200,000. Montana. Open pit, 188,456 tons; steam, washer, 128 coke ovens, capacity 75,000 tons. J. C. Gaskill, supt.
Moundsville	Ry. 42	Marshall	Moundsville Coal Co., J. C. Randall, prest., J. O. Brooks, secy. and mgr., H. W. Hunter, treas.	Cap. stk. \$20,000. Moundsville. Shaft, 80,000 tons; steam. John Brooks sr., supt.
Mount Carbon	Ry. 122	Fayette	Grant Kanawha Colliery Co., Ltd., Snyington, Maryland, mgr.	Cap. stk. \$800,000. Grant Kanawha. Tunnel, 100,000 tons; horse; 66 coke ovens, capacity 25,000 tons.
Mount Clare	Ry. 300	Harrison	Mount Clare Coal Co., J. A. Risple, prest. and mgr., L. H. Jones, secy., Wm. E. Davison, treas.	Cap. stk. \$25,000. Slope, tunnel, 40,000 tons; horse.
Newell	(P. O. Sewell Depot) Ry. 132.	Fayette	Omard Coal Co., Rush Run, W. Va., J. Fred Fininger, prest., F. Howden, secy. and mgr.	Tunnel. John H. Bell, supt.
Nuttallburg	Ry. 132	Fayette	Nuttallburg Coal & Coke Co., Nuttallburg, Keeney's Creek.	180,000 tons; hand, 70 coke ovens. W. H. Holland, supt.
Opekiska	Ry. 42	Monongah	Aemo Coal & Coke Co., F. Ryder, prest., Frank Elden, secy. and treas., C. E. Hutchinson, mgr.	Cap. stk. \$60,000. Opekiska. Drift, 60,000 tons; horse; 20 coke ovens, capacity 10,000 tons. Wm. Hanson, supt.
Piedmont	Ry. 42, 200	Monongah	Davis & Elkins Coal Co., T. R. Davis, prest., W. T. Blackston, secy., mgr. and supt., H. G. Buxton, treas.	Cap. stk. \$100,000. Windour. Drift, 100,000 tons; steam.

COAL—BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Plymouth Ry. 344.		Putnam	Carver Coal Co., Edgewater, W. Va. John Carver, pres.; Ernoch Carver, secy. and treas.; James Carver, mgt. and supt. Cap. stk. \$50,000. Plymouth. Tunnel, 75,000 tons, horse.	
Powellton Ry. Hambley 132, 342B.		Fayette	Mount Carbon Co., Ltd., London, Eng., 53 abthill Bldg. H. C. Newson, pres.; A. B. Seel, secy.; Evan Powell, mgt. Cap. stk. \$200,000. Powellton. Tunnel, 150,000 tons, horse, breaker, 202 coke ovens, capacity 75,000 tons. W. A. Newham, supt.	
Powhatan Ry. 523.		McDowell	Powhatan Coal & Coke Co., J. J. Tierney, pres.; Alfred D. Wolf, secy. and treas.; Lawrence E. Tierney, mgt. Cap. stk. \$100,000. Powhatan. Open pit and tunnel, 150,000 tons, steam and horse, tipple, 150 coke ovens, capacity 30,000 tons. James Hetherman, supt.	
Quinnmont Ry. 132.		Fayette	Quinnmont Coal & Iron Co., W. R. Wister, pres.; Charles Gilpin, Jr., secy. and treas.; D. C. Boyer, mgt. Cap. stk. \$200,000. Quinnmont. Drift, 50,000 tons, steam, 100 coke ovens, capacity 20,000 tons. John McIntosh, supt.	
Rohr Ry. Elkhorn 523.		McDowell	Rohr Coal & Coke Co., Roanoke, Va., Ferry Bldg. J. B. Fishburne, pres.; A. D. Rice, secy. and treas.; W. S. Conell, mgt. and supt. Cap. stk. \$200,000. Tunnel, horse, 10 coke ovens, developing.	
Rush Run Ry. 132.		Fayette	Brooklyn Coal Co., J. Fred Ellinger, pres.; John H. Howald, secy.; W. P. Lums, treas.; F. Howald, mgt. Cap. stk. \$55,000. Pinbow. Drift, 50,000 tons. John H. Bell, supt.	
"	"	"	Red Ash Coal Co., J. Fred Ellinger, pres.; John H. Howald, secy.; W. P. Lums, treas.; F. Howald, mgt. Cap. stk. \$55,000. Red Ash. Drift, 50,000 tons. John H. Bell, supt.	
"	"	"	Royal Coal & Coke Co., J. Fred Ellinger, pres.; John H. Howald, secy.; W. P. Lums, treas.; F. Howald, mgt. Cap. stk. \$55,000. Prince. Drift, 50,000 tons. John H. Bell, supt.	
"	"	"	Rush Run Coal & Coke Co., J. Fred Ellinger, pres.; John H. Howald, secy.; W. P. Lums, treas.; F. Howald, mgt. Cap. stk. \$55,000. Rush Run. Drift, 50,000 tons. John H. Bell, supt.	
Simpson Ry. 42.		Taylor	Simpson Coal Co., W. E. Colborn, mgt. and supt. Simpson. Tunnel, 100,000 tons, horse.	
Spelman Ry. Camden 535, 534.		Mason	Consumers Coal & Mining Co., R. D. Spelman, pres.; O. A. Roush, secy. and treas.; H. E. Spelman, mgt. and supt. Cap. stk. paid up \$1,000. Camden. Open pit, drift, 50,580 tons, steam, electricity.	
Springfield Ry. Meadow Creek 132.		Hampshire	Springfield & New River Developing Co., Springfield, W. Va., J. F. Myers, pres. and mgt.; J. W. Ferguson, secy. and treas. Cap. stk. \$25,000. Developing.	
Spring Hill Ry. 132, 344.		Kanawha	Black Band Mining & Manufacturing Co., Spring Hill, W. Va., J. W. Hamford, pres.; Robert McDonald, secy.; A. M. Wolfendörfer, mgt. Black Band. Drift, 20,000 tons, steam. James Noble, supt.	
Thomas Ry. 799.		Tucker	H. G. Davis Coal Co., H. G. Davis, pres.; F. S. Landwehr, secy. and supt. H. G. Boyton, treas. and mgt. Cap. stk. \$100,000. Thomas. Drift, shaft, 20,000 tons, horse, 50 coke ovens, capacity 10,000 tons.	
Tunnelton Ry. 45.		Fresno	West End Coal Co., A. J. Bonard, pres. and mgt.; J. L. Gray, secy.; W. H. Watkins, treas. Cap. stk. \$100,000. West End. Open pit, 100,000 tons, horse, 100 coke ovens, capacity 4,200 tons. John W. Bonard, supt.	
Tyresonell Mines Ry. 42.		Taylor	Newburg United Coal & Coke Co., Baltimore, Md., S. Gray, supt. Cap. stk. \$50,000. Tyresonell. Tunnel, steam.	
Union Mines Ry. Hambley 132.		Kanawha	Mount Morris Coal Co., Charles D. Lenz, pres. and treas.; Park Chapman, secy.; Samuel Chang, mgt. Cap. stk. \$100,000. Mount Morris. Tunnel, 75,000 tons, horse.	
Vivian Ry. 525.		McDowell	Peedless Coal & Coke Co., R. C. Tuller, pres.; D. R. Day, secy.; Geo. C. Christen, treas.; H. C. Zacharias, mgt. Cap. stk. \$150,000. Peedless Colliery. Tunnel, steam, 100 coke ovens.	
Wellston Ry. 581.		Brooke	Forbes, Carmichael & Co., Wellston. Tunnel, open pit, 15,000 tons, horse. William Fort, supt.	
Winthrole Ry. 132, 344.		Kanawha	Winthrole Coal Co., Philadelphia, Pa., 715 Walnut St. Theobald Weigut, pres.; D. W. Chandler, secy. and treas.; R. B. Cassidy, mgt. and supt. Cap. stk. \$50,000. Winthrole. Open pit, 100,000 tons, steam, horse.	

SALT

LOCATION OF MINE OR WELL, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Hartford City Ry. 534.		Mason	Fiverpool Salt & Coal Co., A. F. Smith, pres. and treas.; Charles C. Brown, secy. and mgt. Cap. stk. \$150,000. Wells, 65,000 lbs. Steam.	
Malden Ry. 132.		Kanawha	J. D. Dickinson & Co., Cap. \$50,000. Well, 100,000 lbs. Steam.	
Mason Ry. 533.		Mason	Southern Salt Co., R. J. Redmond, pres. and treas.; J. H. Moore, secy.; J. C. Knott, mgt. Cap. stk. \$50,000. Domestic. Wells, 600,000 lbs. Steam. Argel Moore, supt.	

SAND

LOCATION OF MINE, OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Berkeley Springs Ry. 12.		Morgan	Berkeley Sand Co., Pittsburgh, Pa., 1111 Carson St. J. D. Wilson, pres.; F. K. Bly, secy.; F. H. S. L. Chadmon, treas. Cap. stk. \$5,000. Sand. Open pit, 100,000 tons, steam.	

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY.		
Alderson,..... Ry. 132.	MONROE	Alderson	Brown Stone Co., Richmond, Va., 1115 Main st. James D. Crump, pres.; George W. Clark, secy. and treas. Cap. stk. \$100,000. Alderson, sandstone. Open pit, 5,000 tons; steam. T. P. Honsby, supt.	
Hinton,..... Ry. 132.	SUMMERS	Virginia	Brown Stone Co., Cincinnati, Ohio, 54 Carew Bldg. John L. Scanlan, pres.; H. L. Thornton, secy.; Charles McDonald, treas. and mgr. Cap. stk. \$100,000. Sandstone. Open pit, 10,000 tons; steam; mill. John McCool, supt.	

SEE ALSO SUPPLEMENTARY LIST

WISCONSIN

GOLD AND SILVER

TOWN AND COUNTY	LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMPE MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
Ellis	Payson Ry., Maxwell 144 1/2 mi. S.	Wabasha Mining Co., Wabasha, Minn., J. C. Johnson, pres., J. H. Mullen, secy., Cap. \$100,000. Wabasha, silver. Shaft, iron.	

IRON

TOWN AND COUNTY	LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
Commonwealth	Florence Ry. 170.	Commonwealth Iron Co., Cleveland, Ohio, 61 and 62 Wade Bldg., E. W. Ogilby, pres., J. C. W. Merrill, secy.; John F. Whitclaw, treas., Cap. \$100,000. Commonwealth, Badger and Davidson, hematite. Shatts and open pits, 151,570 tons, steam. O. C. Davidson, supt.	
Florence	Florence	Florence Iron River Co., New York City, 16 Wall St., John Scott, pres., H. Paderstein, secy., and treas., Florence, red hematite. Shaft, 200,000 tons, steam. S. T. Beattie, supt.	
Hibbard	J. O. Dodge Iron Mountain Ry., Iron Ridge 44	Northwestern Iron Co., Milwaukee, Wis., 67 New Insurance Bldg., Irving M. Bean, pres., and mgr., W. K. Packman, secy., Chas. F. Dickey, treas., Cap. \$100,000. Iron Ridge, red hematite. Open pit, 15,000 tons, horse.	
"	"	Winter's Metallic Plant Co., Iron Mountain, Wis., J. B. Winter, pres., treas., and mgr., F. W. Barrows, secy., Cap. \$10,000. Iron Ridge, hematite. Open pit, 800 tons, steam.	
Hurley	Ashland Ry. 149, 827.	Montreal River Iron Mining Co., Cleveland, Ohio, 39 Wade Bldg., J. H. Wade, pres., E. W. Ogilby, secy., G. A. Garretson, treas., Geo. H. Abert, mgr. and supt., Cap. \$100,000. Montreal, hematite. Shatts, steam.	
"	"	Olanah Iron Co., Milwaukee, Wis., 118 New Insurance Bldg., S. S. Curry, pres., H. S. Haselton, secy., Francis Hinton, treas., Cap. \$100,000. Curry, West Curry and Olanah, hematite. Shatts, steam. C. H. Munger, supt.	
"	"	Peapack & Goebel Consolidated Mining Co., Cleveland, Ohio, Perry Payne Bldg., Joseph L. Colby, treas., Cap. \$1,000,000. Colby, bessemer, hematite. Shaft, 100,000 tons, steam. W. J. Wolcott, supt.	
Iron Belt	Ashland Ry. 827.	Iron Belt Mining Co., Cleveland, Ohio., E. H. Severance, pres., John L. Severance, secy., D. F. Leslie, treas., Cap. \$100,000. Iron Belt, bessemer, red hematite. Shaft, 150,000 tons, steam. Duncan McNichol, supt.	
Ironton	Sauk Ry., La Valle 150.	Iron Mountain Ore & Furnace Co., G. W. Andrews, pres., mgr. and supt., H. C. Girdley, secy., J. C. O. Gorman, treas., Cap. \$100,000. Sauk, red hematite. Open pit, 3,000 tons, hand and horse, furnace.	
Knight	Ashland P. O. & Ry. Plummer 827	Union Iron Mining Co., Ashland, Wis., H. H. Gushier, pres., F. H. Payne, secy., L. Kolman, treas., Wm. Jocko, mgr. and supt., Cap. \$100,000. Simpson, Shaft, steam.	
Vaughn	Ashland (P. O. Hurley) Ry., Ashland 149, 827	Germania Iron Mining Co., Hurley, Wis., E. A. Hayes, pres., W. P. Lyon, secy., J. O. Hayes, treas. and mgr., Cap. \$100,000. Germania, brown hematite. Shatts, 100,000 tons, steam and compressed air. D. D. Smith, supt.	
"	"	Goebels Developing Co., Chicago, Ill., Chas. F. Harding, pres., Geo. F. Westover, secy., Frank Farwell, treas., R. K. Trezona, mgr. and supt., Cap. \$100,000. F. Hennepin, Pence and Sinder, red hematite. Shaft, 50,000 tons, steam.	
Weyerhaeuser	Chippewa Ry. 45.	Minnesota Mining Co., Minneapolis, Minn., W. H. Hinkle, pres., J. Hume, secy., Frank Toole, treas., J. N. Stave, mgr., Cap. \$100,000. Minnesota, bessemer. Shatts, hand-developing.	

LEAD AND ZINC

TOWN AND COUNTY	LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.	
Benton	La Fayette Ry. 150	Benton Lead & Zinc Mining Co., P. A. Orton, pres., J. Buchanan, secy. and treas., L. H. Ewing, mgr. and supt., Cap. \$100,000. Benton Blend, zinc. Shaft, 1,000 tons, horse.	
"	"	Calvert Bros., Cap. \$10,000. Well Strike, lead. Shatts, 100 tons, horse. Joseph Altom, supt.	
"	"	Coltman Mining Co., Coltman, lead and zinc. Tunnel, 1,000 tons, hand.	
Dodgeville	Iowa Ry. 319, 150.	Davis Bros., Cap. \$10,000. Dodgeville, lead and zinc, horse.	
"	"	Evans Bros., Cap. \$2,000. Kangaroo, zinc and lead. Shatts, 50 tons, horse and hand. T. M. Evans, supt.	
"	"	Joseph Soley & Co., Cap. \$5,000. Dodgeville, lead and zinc. Shatts, 300 tons, horse. T. B. Davis, supt.	
"	"	Whitford & Kelley, Cap. \$10,000. Calumet and Berda, lead. Shatts, 4,000 tons, steam. Joseph Shatter, supt.	
Harrison	Grant (P. O. Plattville) Ry., 141, 150.	Hillary, Richter & Co., Plattville, Wis., Crabtree, zinc. Shaft, 200 tons, hand.	

LEAD AND ZINC (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Jamestown Ry. Cuba City 150.		Grant	May & Brant, South Menomonie.	Lead. Shafts; tree, horse and hand, furnace. Conrad May, supt.
Linden Ry. Edmund 150.		Iowa	Linden Mine Co. Wm. Adams, prest. and supt.; John Bowden, secy.; John Vial, treas.; John Adams, mgr. Cap. stk. \$100,000. Linden, lead and zinc. Shaft, 200 tons.	
"		"	W. Ross & Co., Mineral Point, Wis.	Linden, lead and zinc. Shafts, 200 tons.
Mulhlin Ry. Rewey 150.		Iowa	Livingston & Millin, Livingston, Wis. Cap. \$10,000. Coker, lead and zinc. Shaft, 1,200 tons, steam. John Rum, supt.	
"		"	Union Mining Co., Mineral Point, Wis. Wm. Bainbridge, prest.; George Bainbridge, secy. and treas.; Jas. Spensley, mgr. and supt. Cap. stk. \$100,000. Union, zinc. Shaft (developing).	
Mineral Point Ry. 141.		Iowa	Wm. & Jas. A. Hoare. Hoare, lead and zinc. Shaft, 500 tons; horse and hand.	
"		"	Jones & Snow. Zinc. Shafts, 1,000 tons; horse. John Jackson, supt.	
"		"	Spensley, Jones & McPherson. Bonanza, zinc. Shaft, 1,000 tons; horse. James Thrasher, supt.	
"		"	Tyack & Oates, Iowa st. locally. Lead and zinc. Shaft, 45 tons; hand.	
New Diggings La Fayette Ry. Benton 150.		Y.	Empress Mining Co., Joseph Couthard, mgr. and supt. Empress, zinc. Shaft and tunnel, 400 tons, hand.	
"		"	Eureka Mining Co., Benton, Wis. Wm. Curwin, prest.; P. H. Whaley, secy. and treas. Eureka, tunnel, 200 tons. T. Comiskey, supt.	
"		"	Ida Mining Co., Richard Sherwin, secy.; George Hoffman, mgr. and supt. Ida, lead and zinc. Shaft, 1,000 tons, steam.	
"		"	Robert F. Lee Mining Co., Etna, Wis. T. A. McCarthy, prest.; Joseph Couthard, secy. and supt.; John Couthard, treas. M. J. McCarthy, mgr. Cap. stk. \$25,000. Robert F. Lee, zinc. Shaft and tunnel, 500 tons.	
"		"	Sallie Waters Mining Co., M. Nowman, prest. and supt. Will McGivney, secy., treas. and mgr. Sallie Waters, lead and zinc. Shaft, 1,000 tons, steam.	
"		"	Zinc Carbonate Co., Shullsburg, Wis. John H. Savage, prest.; A. Hayden, secy. and treas.; F. C. Rich- mond, mgr. Cap. stk. \$25,000. Lead and zinc. Tunnel, 2,200 tons, steam. Henry Hoffman, supt.	
Platteville Ry. 141, 150.		Grant	Graham & Holzer. Graham's, lead. Shaft, 35 tons, hand.	
"		"	Spensley Hutchinson. Silver Plume. Lead and zinc. Shaft, 1,500 tons; horse.	
"		"	Murphy & Stephens. Cap. \$10,000. Lead. Shaft, 10 tons, hand.	
"		"	Schroeder Bros. & Wolf. Cap. \$2,500. Lead. Shaft, 50 tons, hand.	
"		"	Stephens & Stephens. Lead and zinc. Shaft and tunnel, 200 tons, hand.	
Shullsburg Ry. 141.		La Fayette	Lucky Hit Mining Co. Lucky Hit. Lead and zinc. Shaft, 50 tons, horse.	
"		"	Wisconsin Lead & Zinc Co., New York City, 2 Nassau st. W. Rotch, prest.; Frederick Swift, secy. and treas. Wm. P. Blake, gen. mgr. Cap. stk. \$1,000,000. Calena, Little Giant, Dry Bone, McCarthy and Helena. Lead and zinc. Shafts, tunnels, open pits, 6,000 tons, steam. Turner. Capt. Hagan, supt.	
White Oak Ry. and P. O. Shulls- burg 141.		La Fayette	Pick & Gad Mining Co., Shullsburg, Wis. A. A. Townsend, mgr. and supt. Pick and Gad. Lead. Shaft and tunnel, 15 tons.	

MINERAL PAINT

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Groton 150 Ry. 280, 150		Brown	Fiscal Deglandhammer. Whitney Bluff. Open pit, 1 ton, steam.	

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, OR QUARRY, KIND OF STONE, KIND OF MINE, OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMESTONES AND CALCULI, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Auberg Ry. 151		Marquette	Auberg Granite Co., Chicago, Ill., 10 and 12 La Salle st. W. A. Auberg, prest. and treas.; W. R. Huns- dale, secy. and mgr. Cap. stk. \$150,000. Aberdeen, Aylee, Aldestone, Martindale and Pike, granite, Open pit, 10,000 tons, steam. Ezekiel Edwards, supt.	
Ashlund Ry. 142, 229, 237.		Ashlund	Superior Brownstone Co., W. H. Singer, prest.; W. W. Whitney, secy. Cap. stk. \$50,000. Bass Island, brown sandstone. 10,000 tons, steam, mill.	
Bayfield Ry. 280, 229.		Bayfield	Flax River Brownstone Co., Duluth, Minn., 541 Lake av. S. J. F. Fredin, prest.; E. A. Wilson, secy., C. W. Wilson, treas.; G. J. Miller, mgr. Cap. stk. \$80,000. Flax River, brownstone. Open pit.	

STONE, MARBLE, GRANITE AND ONYX (CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Bayfield	Bayfield		Iron River Brownstone Co., Duluth, Minn., 606 First National Bank Bldg. A. E. McGordie, pres.; J. E. Carzell, secy. and mgr.; W. G. Crosby, treas. Cap. stk. \$100,000. Iron River, brown sandstone. Slope, 12,000 tons. Steam and horse. August Brown, supt.	
Beloit	Ry. 141, 150.		Rock	William Samp, 412 Wheat st., City, limestone.
Berlin	Ry. 141.	Green Lake	Berlin Granite Co., Wm. Baumann, pres.; mgr. and supt. Cap. stk. \$12,000. Berlin, granite. Open pit, 6,000 tons, horse.	
"	"	"	Berlin & Montello Granite Co., Chicago, Ill., 162 Washington st. J. H. Shepard, pres.; C. B. Beach, secy. and treas.; W. H. Bairstow, mgr. Granite. Open pit, 30,000 tons, steam. Geo. Knowles, supt.	
"	"	"	Archibald Met. allum. Sweeting st. Cap. \$5,000. Met. allum.'s, blue granite. Open pit, 12,000 tons, horse.	
Black River Falls	Jackson Ry. 143.		J. Poplham (local). Poplham's, building stone. Open pit, hand.	
Bride	Ry. 529.	Douglas	Arendson Brownstone Co., Chicago, Ill., 64 LaSalle st. A. J. Cheney, pres.; Austin Moody, secy.; W. S. Maxwell, treas. and mgr. Cap. stk. \$10,000. Arendson, brown sandstone. Steam.	
Burnside	Frempereau Ry. and P. O. Independence 200.		A. T. Wickham. South Side, stone, sand, clay. Slope, hand.	
Byron	Ry. 827.	Fond du Lac	Christopher Geiger. Cap. \$15,000. Limestone and flagging.	
"	"	"	Hamilton Lime & Stone Co., Ketchikan, Wis. A. K. Hamilton, pres. and treas.; Martin Corwin, secy. and mgr. Cap. stk. \$35,000. Limestone. Open pit, steam, kilns, 20,000 tons. C. M. Fisher, supt.	
Dodgeville	Ry. 309.	Iowa	Davis Brothers. Cap. \$5,000. Dodgeville, limestone. Horse, trucking, 12 tons.	
Duck Creek	Ry. 141, 150.	Brown	Roux & Bentley. Cap. \$10,000. Duck creek, limestone. Open pit, steam, hand and horse.	
Eden	Ry. 150.	Fond du Lac	Marblehead Lime Co., Chicago, Ill., 108 and 50 Canal st. A. T. Howe, pres.; C. C. Bishop, secy. and treas.; A. Newton, mgr. Cap. stk. \$10,000. Eden, limestone and flagstone. Open pit, trucking, 700 tons. T. G. Kinder, supt.	
"	"	"	West Bros., Marblehead, Wis. Cap. \$30,000. Limestone, 15,000 tons.	
Fox Lake	Ry. 141	Dodge	A. Fanshaw. Cap. \$1,000. Fox Lake, limestone. Open pit, horse and hand.	
Fulton	Ry. Edgerton 141	Rock	G. W. Coxhead, Edgerton, Wis. Building and limestone. Open pit, 800 tons. Hand, trucking, 1,200 tons.	
"	"	"	John Horton. Building stone. Open pit, powder.	
Green Bay	Ry. 380.	Brown	Presel Degrandageage. Whitney Butte, limestone. Steam, mill, trucking 20 tons.	
Green Lake	Green Lake Ry. Ripon 141, 150.	Green Lake	Green Lake Granite Co., Chicago, Ill., 104 and 106 LaSalle Bldg. John DeCanon, pres.; John DeShetwood, secy.; Chris. F. Towne, treas. Cap. stk. \$10,000. Green Lake, granite. Open pit, 7,500 tons; steam.	
Hortonville	Ry. 149.	Outagamie	David Hodgans. Cap. \$5,000. Limestone. Open pit, kiln.	
Houghton	Ry. 141.	Bayfield	Hartley Bros., Minneapolis, Minn., 418 Hennepin av. Hartley's, brown sandstone. 10,000 tons, steam, mill.	
Howard	P. O. and Ry. Creek 150.	Brown	W. Brunette, A. Cp. W. S. Cap. \$100,000. Old Duck Creek, blue limestone. Open pit, 7,500 tons. Steam, mill.	
"	"	"	Wm. F. Finnegan Brick Manufacturing Co., Fort Howard, Wis. Cap. stk. \$50,000. Blue limestone. Open pit, steam. W. F. Finnegan, supt.	
Hubbard	Ry. and P. O. Mayville 141	Dodge	Mayville White Lime Works, Mayville, W. S. Chas. Brown, pres.; E. L. L. Reed, secy. and treas.; Herman H. Reed, mgr. Cap. stk. \$4,000. Brown's Corner Stone, limestone. Open pit, 20,000 tons, steam and electricity, mill. David Powers, supt.	
Junction	Ry. 150.	Dodge	J. D. Finney. Stone. Open pit, hand, mill.	
Kankama	Ry. 150, 149.	Outagamie	Kankama Stone Quarry Co. Cap. \$3,000. Limestone. Open pit, 10,000 tons, steam. J. Jones, supt.	
Knapp	Ry. 141.	Deau	Goodyear & Saddle Mount Sandstone Co., La Crosse, W. S. E. A. W. Sheer, pres.; G. R. Vincent, secy. and treas.; J. M. Reynolds, mgr. and supt. Cap. stk. \$12,000. Goodyear and Saddle Mount, sandstone. Open pit, steam, mill.	
Madison	Ry. 141, 150, 319.	Dane	David Stephens. Cap. \$5,000. Stephens, limestone and sandstone. Slope, 10,000 tons. Steam, electricity and hand, mill. John Munster, supt.	
Marshfield	Ry. 143, 827.	Wood	Johnson & Ward, Milwaukee, Wis. Room 500 Old Insurance Bldg. Wisc. insur. and 2103 21st. The Volapug.	
Medina	Ry. 143, 827.	Outagamie	Medina Stone Quarry Co., Appleton, W. S. 708 Appleton st. C. R. Morrison, pres. and treas.; R. S. Rahl, secy. and supt. Cap. stk. \$10,000. Medina, limestone. Open pit, 3,000 tons, steam.	
Menomonie Falls	Ry. 150.	Waukesha	Menomonie Falls Quarry Co., Milwaukee, Wisc., 100 W. Second st. Winfield Smith, pres.; Samuel Rosen, chf. secy.; Henry Heintz, treas.; A. H. Hadfield, mgr. Cap. stk. \$10,000. Menomonie Falls, limestone. Open pit, 10,000 tons, steam, mill. R. D. Blum, supt.	
Montello	Ry. 827.	Marquette	Berlin & Montello Granite Co., Chicago, Ill., 162 Washington st. J. H. Shepard, pres.; C. B. Beach, secy. and treas.; W. H. Bairstow, mgr. Cap. stk. \$250,000. Montello, granite. Open pit, 10,000 tons, water, mill. Edward Burns, supt.	
Mount Pleasant	P. O. and Ry. 141, 150.	Racine	Fox's Lime & Stone Co., Racine, W. S. Cap. \$15,000. Fox's, building and limestone. Open pit, 7,000 tons, steam, horse, kilns, 10,000 tons. J. J. Fox, supt.	

STONE, MARBLE, GRANITE AND ONYX (CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	COUNTY.		
Mount Pleasant (Continued.)	Racine	Horlick's Lime & Stone Co., Racine, Wis. Alex. Horlick, prest.; G. W. Horlick, secy. and treas. Cap. stk. \$20,000. Horlick's, lime and building stone. 15,000 tons; kilns, 6,000 tons. J. A. Horlick, supt.	
New Diggings, La Fayette Ry. Benton 150		Joseph Couthard, Elgin, Wis. Empress, bluestone. Shaft and tunnel, 500 tons, horse and hand.	
New Richmond Ry. 143, 827.	St. Croix	Oakes & Sons. Limestone, soapstone and sandstone. Open pit, water. Wm. Oakes, supt.	
Oshkosh Ry. 141.	Winnebago	Oshkosh quarry Co., cor. Knapp and Thirteenth sts. Wm. Faber, prest. and treas. A. Lutz, secy.; Robert Lutz, mgr. and supt. Blue limestone. Open pit, 48,000 tons, steam.	
Pewaukee Ry. 141.	Waukesha	Waukesha Stone Co., Milwaukee, Wis., 469 Third St. Oscar Knie, prest. and mgr.; Daniel Meyers, secy.; Fred Kraus, treas. Cap. stk. \$100,000. Waukesha, limestone. 80,000 tons; steam. Frank W. Harland, supt.	
Platteville Ry. 141, 150.	Grant	Place & Gerdtz, Cedar St. Cap. \$1,000. Bride, limestone. Open pit, 13,000 tons; hand.	
Presque Isle Ry. and P. O. Ashland 386.	Ashland	Ashland Brown Stone Co., Chicago, Ill., 1110 The Rookery. G. A. Bodenschatz, prest.; E. H. Brown, secy.; J. G. Bodenschatz, treas.; A. M. Brown, mgr. Cap. stk. \$100,000. Ashland, brownstone. Open pit, 20,000 tons, steam. A. E. Dickinson, supt.	
Sheboygan Ry. 150, 380, 449.	Sheboygan	Sheboygan Lime Works, 822 Niagara st. Mrs. H. E. Roth, prest. and treas.; Herman L. Roth, secy. and mgr. Cap. stk. \$40,000. Limestone. Open pit, steam; kilns. Martin Schultz, supt.	
Sparta Ry. 141, 150.	Monroe	Simon W. Bunce (local). Cap. \$800. Freestone. Open pit, 1,750 tons, hand.	
Sturgeon Bay Ry. 380.	Dou	John M. Laurie. Cap. \$8,000. Laurie's, stone. Open pit, 10,500 tons, horse and hand.	
Trempealeau/Trempealeau Ry. 145, 150, 296.		J. A. Johnson. Riverview, free and limestone. Slope; hand.	
Washburn Ry. 143	Bayfield	Barbeck & Smith, Houghton, Wis. Cap. \$10,000. Washburn, brown sandstone. Open pit, 90,000 tons, steam. W. H. Smith, supt.	
"	"	Prentice Brownstone Co., Ashland, Wis., 200, 202, 204 and 206 Knight Block. F. Prentice, prest., treas. and mgr.; J. B. Niles, secy. Cap. stk. \$125,000. Prentice, sandstone. Open pit, 43,200 tons; steam; stone mill.	
Wauwatosa Ry. 141.	Milwaukee	Monarch Stone Quarry Co., Milwaukee, Wis., 371 Broadway. H. Niedecken, prest.; J. W. Bingham, secy. and gen. mgr. Cap. stk. \$100,000. Monarch, dimension and rubble stone. Open pit, 130,000 tons; steam. H. H. Greene, supt.	
"	"	Story Brothers, Milwaukee, Wis., Room 7, 204 Grand av. Story Bros., limestone. Open pit, 30,000 tons; compressed air.	
White Water Ry. 146	Walworth	G. W. Coburn. Coburn, limestone. Open pit, hand, 1,600 tons.	

SEE ALSO SUPPLEMENTARY LIST

WYOMING

ASPHALTUM

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.		
TOWN	AND	COUNTY			
Piedmont Ry. 776.		Lincoln	Chris. Guild & Sons	Katona	Open pit.

COAL, BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORT OVENS, AND NAME OF MINE SUPERINTENDENT.		
TOWN	AND	COUNTY			
Almy Ry. 776.		Lincoln	Union Pacific Coal Co., Omaha, Neb.	No. 7	Slope, 11,000 tons; steam. W. T. Ramsay, supt.
Black Buttes Ry. 776.	Sweetwater		Black Butte Coal Mining Co., William Matthews, pres., P. A. Kettle, secy. and supt.	C. R. Sears, treas., and mgt.	Cap. stk. \$100,000. Black Butte. Slope, 40,000 tons; horse.
Buffalo Ry. Gillette ss.		Johnson	Robert Frote, local.	Cap. \$1,000.	Diamond. Slope, 4,000 tons; horse.
"		"	Munkres & Mather, local.	Cap. \$20,000.	Munkres and Mather. Slope, 5,000 tons; horse. G. W. Munkres, supt.
Cambria Ry. Newcastle ss.	Weston		Cambria Mining Co., Butte, Nev. W. H. Kilpatrick, pres.; C. W. Collins, V. pres.; R. J. Kilpatrick, secy. and treas.; Cap. stk. \$70,000. Junior and Antelope. Tunnel, 2,000 tons; compressed air, breaker. W. Hamilton, supt.		
Carbon Ry. 776.	Carbon		Union Pacific Coal Co., Omaha, Neb. North and Laramie sts.	Cap. stk. \$200,000.	Carbon No. 2. Slope, 17,000 tons; steam. J. J. Hall, supt.
Cokeville Ry. 776.		Lincoln	E. M. White. Rock Creek. Shaft.	steam, washer.	C. M. White, supt.
Dana Ry. 776.	Carbon		Union Pacific Coal Co., Omaha, Neb. North and Laramie sts.	Cap. stk. \$200,000.	Dana. Slope, 17,700 tons; steam.
Evansston Ry. 776 (Hindes)	Lincoln		Porter, Detsworth & Lizzet. Alma Porter, mgt.	Cap. stk. \$50,000.	Cannel. Slope, 7,000 tons; steam. George D. Lizzet, supt.
" Ry. Almy 776.		"	Rocky Mountain Coal & Iron Co., San Francisco, Cal. Forth and Townsend sts.	Charles L. Crockett, pres.; Frank S. Dooty, secy. and treas.	Cap. stk. \$1,000,000. Almy. Slope, 18,000 tons; steam. A. F. Bradbury, supt.
Hann's Fork Ry. 776.	Lincoln		Owens & Dodson, Salt Lake City, Utah. Royford. J. T. Dodson, pres.; R. F. Dodson, secy.; L. M. Dodson, treas.; G. W. Owens, mgt. and supt.	Cap. \$5,000.	Bearick. Slope, horse and hand; dry veloping.
Hanna Ry. 776.	Carbon		Union Pacific Coal Co., Omaha, Neb. North and Laramie sts.	Cap. stk. \$200,000.	Hanna, Nos. 1 and 2. 10,850 tons; steam. G. R. Hall, supt.
Lander Ry. Rawlins 776.	Idaho		James E. Ellis, local.	Cap. \$1,000.	Cap. \$500. Lander. Slope, 1,000 tons; horse.
New Castle Ry. 89.	Weston		New Castle Mining & Improvement Co., Butte, Nev. J. B. Weston, pres.; R. J. Kildrick, secy. and treas.; W. H. Kildrick, mgt. and supt.	Cap. stk. \$20,000.	New Castle. Slope, 10,000 tons; compressed air; conveyers.
Rawlins Ry. 776.	Carbon		J. C. Miller. Shaft and tunnel. Tunnel.	Joseph E. Foxley, supt.	
Rock Springs Ry. 776.	Sweetwater		Inter State Coal Co., Ogden, Utah. 260 Washington st.	L. L. Holman, secy. and treas.; G. G. Griffith, mgt. and supt.	Cap. stk. \$200,000. Inter State. Tunnel, steam.
"		"	Rock Springs Coal Co., H. G. Hatch, pres.; John W. Brown, V. pres.; A. Kendall, treas.; P. J. Quaid, mgt. and supt.	Cap. stk. \$200,000.	Nos. 1 and 2. 10,000 tons; steam.
"		"	Sweetwater Coal Mining Co., M. L. Greene, pres.; S. R. Fagerberg, secy. and treas.;	Chas. R. Kelsey, mgt. and supt.	Cap. stk. \$200,000. Sweetwater. Shaft, 10,000 tons; horse.
"		"	Union Pacific Coal Co., Omaha, Neb. North and Laramie sts.	Cap. stk. \$200,000.	Rock Springs No. 1. Slope, 25,750 tons; steam. G. L. Black, supt.
"		"	Rock Springs No. 2. Shaft, 26,875 tons; steam, horse.	G. L. Black, supt.	Rock Springs No. 3. Tunnel, 34,125 tons; steam and horse. G. L. Black, supt.
"		"	Rock Springs No. 4. Shaft, 26,875 tons; steam, horse.	G. L. Black, supt.	Rock Springs No. 5. Tunnel, 34,125 tons; steam and horse. G. L. Black, supt.
"		"	Rock Springs No. 6. Shaft, 26,875 tons; steam, horse.	G. L. Black, supt.	Rock Springs No. 7. Tunnel, 34,125 tons; steam and horse. G. L. Black, supt.
"		"	Rock Springs No. 8. Shaft, 26,875 tons; steam and horse.	G. L. Black, supt.	Rock Springs No. 9. Tunnel, 34,125 tons; steam and horse. G. L. Black, supt.
"		"	Vandyke Coal and Mining Co., Fred W. Gray, pres. and treas.; P. C. Kettle, mgt. and supt.	Vandyke. Slope and tunnel, 26,000 tons; horse.	
Sheridan Ry. Gillette ss.	Sheridan		Geo. Brundage. Local. Black Diamond. Tunnel.	10,000 tons; hand.	
"	Weston		Burns Coal Co., local.	R. J. Hall. Tunnel, hand.	
"	P. O. Bryan, Kata				

COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY	
Swan Carbon Ry. Fort Steel 776 475 miles.	Milliken & Hanley, Carbon, Wyo. Michael Hanley, pres., mgr. and supt.; John Milliken, treas. and secy. Cap. \$10,000. Axis, copper. Shafts, 300 tons, hand.

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY	
Atlantic City Fremont Ry. Rawlins 776.	Garfield Mining Co., Boston, Mass., 45 Oliver st. A. O. Norton, pres.; Hon. Harry C. Peabody, secy.; C. W. Baldwin, treas.; M. B. Lovell, mgr. Cap. \$tk. \$500,000. Garfield, gold. Tunnels, shafts, 10,000 tons, free, steam. A. M. Spurrhawk, supt.
"	Emile Granier. Cap. \$100,000. Christina Lake, gold. Placers, 20 claims, free; hydraulic. Geo. A. Zimmerman, supt.
"	Robert McAuley. Mary Ellen, gold and silver. Shaft: hand.
Carbon Ry. 776.	Gold Hill Mining & Milling Co. H. B. Allen, pres.; J. S. Allen, secy.; Mauder Peterson, treas.; Geo. H. Fides, mgr. Cap. \$tk. \$20,000. Occidental, gold and silver. Shaft, free, steam, 10 stamps. John Martin, supt.
Gold Hill P.O. & Ry. Rawlins 776	John Booker. Cap. \$2,500. Wild West, gold. Open pit; refractory; steam; 10 stamps. Col. Downey, supt.
Laramie Ry. 776.	Ouras Mining Co., Laramie, Wyo. Lionel Sartorio, pres.; Fred Douglas Willam, secy. and treas.; W. C. Knight, mgr. and supt. Cap. \$tk. \$1,000,000. Keystone and Blue Jay, gold. Shafts, 7,000 tons; free, refractory, steam, water, 20 stamps.
Miners' Delight Fremont Ry. Rawlins 776.	George Bishop. Coming Day, gold. Tunnel; free, hand.
"	John Disner. Gold. Placer.
Welcome Crockett Ry. Whitewood, S. Dak., 274.	Inter Ocean Mining Co., Chas. J. Finch, mgr. Cap. \$tk. \$40,000. Inter Ocean, gold. Open pit, 22,500 tons; steam; mill, 100 tons. R. G. Anderson, supt.
"	Kinchart, Finch & Co. Cap. \$20,000. Gold Finch, Gold Bank and Gold Coin, gold and silver. Shafts and tunnels, hand.
" Fremont P. O. & Ry. Red Lodge Mont. 320 150 miles.	Dunham Mining Co. S. C. Hunter, pres.; A. E. Flager, secy. and treas.; R. B. Dunham, mgr. Cap. \$tk. \$1,500,000. Gold. Tunnel; refractory.

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY	
Simlaire Crockett Ry. Newcastle	Midland Mining & Developing Co., Rapid City, S. Dak. John J. Bachford, pres.; E. M. Bowles, secy.; W. W. Hinton, treas.; Samuel Scott, mgr. and supt. Cap. \$tk. \$25,000,000. Iron, hematite. Open pit, placer.

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAMACTY, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY	
Rawlins Ry. 776	Kearney Stone Works, Kearney, Neb. J. T. O'Brien, pres.; H. J. Stedman, secy. and treas.; J. Mur- dock, mgr. Cap. \$tk. \$60,000. Gaby, stone. Open pit, 6,250 tons, steam. James McPherson, supt.

SEE ALSO SUPPLEMENTARY LIST

SUPPLEMENTARY LIST

OF

MINING COMPANIES AND OPERATORS

IN THE

UNITED STATES OF AMERICA

WHOM WE HAVE REASON TO BELIEVE ARE AT POINTS GIVEN, BUT WHO HAVE
FAILED TO FURNISH DESIRED DETAILED INFORMATION
FOR REGULAR LISTS

ALABAMA

COAL BITUMINOUS

NAME	POST OFFICE
J. W. Lowry	Arkadelphia
A. Barks	Fairfax
Harrison Mining Co.	Bessemer
American Coal Co.	Birmingham
Yuleam Coal & Coke Co.	"
Z. Cornelius	Blountsville
Isaac Price & Co.	Brookside
E. M. Tutwiler	"
James Rynum	Carbon Hill
J. F. Reid Coal Co.	"
Kansas City Coal & Coke Co.	"
Champion Mining Co.	Champion
Warrior Coal & Coke Co.	Coaldale
Wm. Good & Co.	Cooking
Joe Canning	Combsville Mines
W. W. Pruden	Cottontide
Marshall Smith	Cullman
Donaldson Coal Co.	Dry's Gap
Harrison Coal Co.	Dugwood
W. L. Watson	Flozoo
Sam Con.	Gadsden
S. D. Jacobs	"
J. S. Paden	"
Flowah Mining Co.	Grindup
Europa Coal & Coke Co.	Helena
South Birmingham Coal	"
A. Hunt Co.	"
Zenith Coal Co.	"
D. Bales	Liberty
Milner Coal & Ry. Co.	New Castle
Black Diamond Coal Co.	Parton
Virginia & Alabama Coal	"
C. A. Nolan	Pratt Mines
Horse Creek Coal Co.	Sharon
Ray Leaf Coal Co.	"
May Eden Coal Co.	"
Harry Watkins	Trussville
Pulaski Coal, Iron & Lead Co.	Tuscaloosa
Pearson Coal, Iron & Railroad Co.	Warrior
Woodward Iron Co.	Woodward
Birmingham Mfg. Co.	Wyand

COLD

Alabama & Georgia Mining Co.	Anniston
The Talladega Gold Mining Co.	Talladega

IRON

Fremont Furn.	Anniston
Marcellus Steels	"
John Tonkin	"
Flowah Mining Co.	Atchala
Molange Mining Co.	"
Southern Iron Co.	Birmingham
Bluffton Iron Co.	Bluffton
Cedar Bluff Land, Mfg. & Mfg. Co.	Cedar Bluff
J. R. Sewell	Combsville
W. H. Denson & Co.	Combsville
Z. L. Lawrence	Liberty

NAME	POST OFFICE
Port Payne Furnace Co.	Port Payne
L. M. Anderson	Gadsden
Shelby & Birmingham Coal, Iron & Ry. Co.	Gambler
Stevens & Co.	Huffman
C. M. Morgan	Frontale
Jacksonville Iron & Steel Co.	Jacksonville
Jemifer Iron Co.	Jemifer
Piedmont Iron & Land Co.	Piedmont
Alabama Construction & Mining Co.	Talladega
J. L. Ample	"
P. M. Rogers	"
W. H. Skaggs	"
J. M. Sims	Trussville
A. Duth	Tuscaloosa
Penn. & Alabama Co.	"

PHOSPHATE

Mobile Phosphate Mfg. Co.	Mobile
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STONE, GRANITE, MARBLE AND ONYX

Simon Jewell	Anniston
W. H. Rhea	Atchala
J. H. Wesson	"
W. L. Wilson	"
J. M. Fancher	Fairfax
M. Cabot	Gaffney
Mr. Lawrence	Hindale
F. M. Cabot	Frontale
M. L. Pritchett	Jackson
Ross & Cabot Co.	Johns
R. F. O'Brien	Sharon
W. N. Martin	Trussville
R. D. Smith	"

ALASKA

COAL

Copper Mining & Trading Co.	Koon
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COLD AND SILVER

F. Cook	Douglas
Peter Johnson	"
Henry Meade	"
Mexican Mining & Mfg. Co.	"
Prof. Shultz	"
Geo. Stiggy	"
Isaac Bonter	Jackson
W. D. McLeod	"
Alward & McLaughlin	Jimmie
Charles Bart	"
W. M. Bennett	"
Henry Boutson	"
Carroll, Murray, Fisher & Wells	"
Eastern Alaska Mfg. & Mining Co.	"
Grand A. Co.	"
Kamantapas & Co.	"
Wm. McEwen	"

NAME POST OFFICE

Silver Bow Basin Mining Co.	Butte
Silver Queen Mining Co.	Butte
Takou Consolidated Mining Co.	"
W. T. Webster	"
R. Albertstone	Sitka
Nicholas Haley	"
T. R. Mooney	"
W. F. Farmer	"
P. C. Wittenhiller	"
Orlando Grant	Loring
Sam. Gilbert	"
Richard Stack	"

ARIZONA

COPPER

Geo. Bolpette	Avia Flat Valley
Copper King Mining Co.	Cotton
H. D. Underwood	Tucson
P. Oates	Globe
Alva Temple	"
Jerome Mining Co.	Prescott

COLD AND SILVER

Hudson Ross	Avia Flat Valley
Bogan & Prescott	Avia Flat Valley
W. C. Clark	"
H. L. Doherty	"
New Colorado Mining Co.	"
Silver Queen Mining Co.	"
Silver Queen Mining Co.	"
Frank Siga	"
W. W. Wallace	"
Yellow Jacket Mining Co.	"
Frank Rutter	Chino
Joe T. Brockman	"
Wells & Co.	"
The Mining & Mfg. Co.	"
Richard Lyon	"
Stanton M. Wheeler	"
Gold & Silver Cliff Mining Co.	Cotton
Joseph Brewster	Globe
Joseph Henry	"
George Kitchin	"
Benson Mining Co.	"
Wilson & P. O'Brien	"
W. H. Woodson	"
John Barnett	Gold Butte
John Cox	"
Chas. Hand	"
S. C. Rowe	"
Joseph L. Anderson	Globe
L. B. Blum	"
L. L. Childers	"
P. J. Cuyne	"
Dani. Johnston	"
Johnston Bros.	"
J. Saunders	"
Thos. W. Steer	"
L. E. Jago	Minimo
Gold & Silver Co.	Prescott
Phoenix Mfg. Co.	"
Frank K. Ho	Prescott

NAME	POSTOFFICE	NAME	POSTOFFICE	NAME	POSTOFFICE
Lamy Creek Gold & Land Co.,	Prescott	L. L. Petty	Silver Hill	Hopkins, Nash & Co.,	Adin
Lamy Creek Hydraulic Mines	"	E. T. Petty	"	S. Lewis	"
Sonator Mining Co.	"	W. H. Wolf	"	Frank Vanderlist & Co.,	"
Jesse H. Brown	Silver King			Daisy Hill Mining Co.,	Alameda
Geo. Lath	"	IRON		Amador Gold Mining Co.,	Amador City
Monarch of Sea Mining Co.	"	Jesse M. Barrett	Batesville	Ellipse Mining Co.,	"
John Paul	"	J. H. Patterson & Bro.	"	Little Anador Mining Co.,	"
Jacob Penally	"	M. W. Reeves	"	Quartz Mountain Mining Co.,	"
Dani. Regan	"	Siloam Springs Mining & Prospecting Co.	Siloam Springs	Foster Mines	Anderson
George Sarlich	"			Raid Hill Mining Co.,	Angels Camp
D. H. Tait	"	LEAD AND ZINC		Calaveras Cons. Gold Mining Co.,	"
Sam Thorpe	"	Bullion City Mining Co.,	Fayetteville	J. M. Bryan	Auburn
Richard Trevelthan,	"	J. W. Bradley & Co.	Powell	Erie Mining Co.,	"
R. S. Wright	"	Davis & Linton	"	Frank Hartley	"
Old Guard Mining Co.	Tombstone	J. R. Milburn & Co.	"	J. W. White	"
P. T. Chane	Tucson	E. J. Pierce & Co.	"	British Grace Mining Co.,	Bangor
Quinton Mining Co.	"	Powell Mining Co.	"	Badger Mining Co.,	Bear Valley
H. S. Stevens	"	Rendler Bros.	"	E. E. Hall	"
Valture Milling & Mining Co.	Valture			O. R. Moran	"
Blossom Mining Co.	Amice	STONE, GRANITE, MARBLE AND ONYX		Rising Sun Mining Co.,	Benton
Lapar Mining Co.	"	T. H. White	Bryant	Win Caban	"
P. P. Matheson,	"	Beaver White River	"	W. G. Conch	"
Pasadena Mining Co.	"	Stone & Mining Co.,	Eureka Springs	Henry Garner	"
Paymaster Mining Co.,	"	W. F. Blakemore	Greenwood	J. F. Miller	"
Frank Venned	"	W. B. W. Heartsill	"	Osborn, Gold Mill and Mining Co.,	Berkeley
		Heartley Stone Co.	Huntington	L. Cassorette	Big Oak Flat
		W. J. Starn	"	D. E. Longfellow	"
		Jas. Kelly	Russellville	J. C. McLaughlin	"
		Joe Crawley	Stricklet	H. M. Stanley	"
		S. E. Dale	"	Hearson & Murray	Black Bear
		Win. Dale	"	J. J. Smith & Co.	"
				Edworth ops. Mining Co.,	Bodie
				Peter Anderson	Bridgeport
				A. Fitzpatrick	"
				Inter State Cons. M. Co.	"
				Hubert & Burris	Browns Valley
				New York Horse Mining Co.	"
				Joseph Bingham	Brownsville
				John Castello	Butte Valley
				Dunoyer & Co.	"
				John Fosse	"
				J. W. Gardner	"
				J. B. Hunter	"
				High Kelly	"
				Frank Koffler	"
				A. G. Leatormum	"
				C. H. Lee	"
				John McMillin	"
				R. Mutter	"
				Samuel Olson	"
				T. W. Orton	"
				R. Paggion	"
				Hani Fisher	"
				William Peck	"
				J. Perini	"
				J. Pollard	"
				H. Ratford	"
				Sayerood Bros.	"
				Jack Sorsole	"
				A. W. Vanderpool	"
				Edward Ware	"
				Dr. Henry White	"
				Whitney Wilson	"
				John Goff	Calantha
				Dibbols & Nichols	Calico
				Goodwin & Collins	"
				D. Gravel	"
				Rabi Green	"
				Louis Herlinger	"
				King & Feeney	"
				Carl Knack	"
				C. E. Knapp	"
				Jas. McGluehy	"
				McLennan, Miller & Co.	"
				John Shunkin	"
				Sullivan, Read & King	"
				L. S. Weaver	"
				White, Wheeler & Donnell	"
				Bradford Mining Co.	Calistoga
				Silverado Mining Co.	"
				Las Boras Mining Co.	Cambria
				Campo Seco Quartz Mining Co.	Campo Seco
				California Mining Co.	Colbyville
				C. Matargas	Cerro Gordo
				Swanson Mining Co.	"
				John Thomas	"
				Samuel Allen	Chinese Camp
				A. M. Baker	"
				N. Currie	"
				C. Dresha	"
				Bent Heath	"
				F. Knapp	"
				C. McManis	"
				C. Seagle	"
				Geo. A. Webster	"
				J. R. Moffit	"
				B. T. Brown	Canton
				P. E. Pottam	"

STONE, GRANITE, MARBLE AND ONYX

Big Big Onyx Co.,	Prescott
M. J. Sullivan	Tucson

CALIFORNIA**ALUMINUM**

American Aluminum Co.,	San Francisco
Pacific Coast Aluminum Co.	"

ASPHALTUM

Santa Barbara Asphalt Co.,	La Bateria
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COAL BITUMINOUS

Stevell & Co.	Coal Hill
R. M. Winn & Co.	"
Rice Bros.	Fayetteville
J. D. Bender	Huntington
National Coal Co.	"
J. J. Alexander	"
G. M. Anderson	"
D. A. Foley	"
D. Harrellson	"
G. A. Hitehinson	"
Stillwell & Co.	Little Rock
Russells Coal Mining Co.	Russellville
J. N. Sweet Coal Mng. Co.	"
H. Lee	Stricklet
J. R. Smith	"
Blue Mt. Oil & Mineral Co.	Wayland

COLD AND SILVER

Crystal Spgs. Mining Co.,	Crystal Springs
C. H. Jacobs	"
C. C. England	Fayetteville
Fayetteville Mining Co.	"
D. M. Harrison	"
C. F. Kinnaird	"
C. F. Lutz	"
W. H. Lutz	"
Stephen Lemons	"
Win. Patterson	"
East Los Angeles Gld. Mine	Hot Springs
A. M. Ferguson	Huntington
Old Bull Mining Co.	Little Rock
Fred Blucher	Petty
Sam. Davis	"
Win. Davis	"
C. F. Hughes	"
A. A. Pence	"
J. W. Winfield	"
A. L. Winfield	"
Mannoth Mine Co.	Silver City
Montezuma Mining Co.	"
Narrow Gauge Mining Co.	"
Silver Hill Mining Co.	"
Valiant Mining & Milling Co.	"
W. T. Ballard	Silver Hill
Evans Cossell	"
Geo. Davis	"
Low Davis	"
M. C. Duggan	"
Day & Hankins	"

COLD AND SILVER

Dump Mining Co.	Acton
New York Mining Co.	"
Red Rover Mining Co.	"
Trinidad Mining Co.	Adin
M. A. Vail & Co.	"
Blue Belle Mining Co.	"
Evening Star Mining Co.	"
Hayden Hill Lumber Co.	"

NAME	POSTOFFICE	NAME	POSTOFFICE	NAME	POSTOFFICE
Andrew Kilpatrick	Clinton	Phonix Cons. Mining &		W. O. Havermale	Julian
D. M. Steward	"	E. Milling Co.	Greenville	Inda Mining Co.	"
Stimmer Cons. M. & M. Co.	"	C. C. Buckman	Greenwood	Warlock Mining Co.	"
John Triedell	"	F. Carvajal	"	Thos. Boland	Keeler
Flying Dutchman Min-	"	W. Dixon	"	J. D. Channell	"
ing Co.	Course Gold Gulch	J. Gallagher	"	Snyder Mine	Keeler
Hawk Eye Mining Co.	"	A. Janney	"	John Laue Mining Co.	Ketchikan
Morning Star Mining Co.	"	M. Howe	"	D. W. Baughman	Lang
New Citizens Mining Co.	"	H. Lueck	"	D. Menzies & Co.	"
Texas Flat Mining Co.	"	L. Marson	"	C. T. Mueller	"
Big Oak Tree Mining Co.	Colfax	S. A. Moss	"	W. J. Thomas	"
A. J. Petersen	Colonia	H. Radbruch	"	John Weston	"
T. C. Finney	Columbia	F. Winkelman	"	Joseph E. Youngblood	"
R. C. Davis	"	J. A. Wolf	"	Thomas Porter	Lapuzet
McKenna & Kanig	"	W. T. Armstrong	Grizzly Flats	H. C. Peterson	"
McPherson & Hilton	"	Win. Cole	"	J. J. Angeltine	Lewiston
J. B. Pownall	"	A. J. Graham	"	C. L. Blakeman	"
Andrew Carlson	Copely	J. W. Kendall	"	Blakeman & Sprung	"
H. P. Christensen	"	Lawrence, Levy & Melton	"	E. Stead	"
Thos. Foster	"	J. M. McLean	"	A. W. Chamberlain	"
Golden Call Mining Co.	"	Moore & Claybourne	"	John Collopy	"
Joel Holman	"	John B. Perry	"	J. M. Crow	"
J. E. King	"	Sprunzel & Joener	"	Frank Daniels	"
Oliver Langfield	"	C. A. M. Wheeler	"	J. J. Dugues	"
Minnesota Mining Co.	"	Wiley Sexton	"	J. H. Fisher	"
Musser & Co.	"	August Delferran	Graveland	J. Gifford	"
Chas. B. Nichols	"	L. K. Hough	"	R. Hamilton	"
Geo. W. Nichols	"	Win. R. Shaw	"	C. H. Hickey	"
David Pasenka	"	James Bozzi	Happy Camp	Chas. Ingraham	"
J. C. Pinefney	"	S. C. Howard	"	J. Jacobie	"
Reiley & Bliss	"	Oak & Co.	"	Ali Jan	"
Robert Stevens	"	J. Kovee	"	M. McKinney	"
J. H. Stowell	"	Mrs. M. Reeve	"	Jas. Norton	"
Robin Aubrey	Cottage Grove	Shinal Ross	"	M. Olsen	"
John Brown	"	G. R. Temple	"	Ali Sawa	"
Elliott Bros	"	W. H. Ellenwood	Happy Creek	Geo. Summers	"
Fredy Kell	"	S. Richardson	"	Taylor & Kaufman	"
A. Halvorsen	"	L. P. Smith	"	W. P. Harlow	Loomis
Samuel Stenshaw	"	Cleveland Cons. Mining	"	Alpine Springs Land &	"
Cook Bros. Estate	Coutleville	Ed. Hart	"	Water Co.	Los Angeles
Martin & Walling	"	Ed. Laule Mining Co.	Davidah	Capon Mining & Water	"
Jas. W. Reed	"	Blue Bell Mining Co.	Hayden Hill	"	"
Alford Mining Co.	Daguerre	Golden Eagle Mining Co.	"	Cayado Mining Co.	"
C. P. Dunnegan	"	North Star Mining Co.	"	Pacific Gold & S. Ast	"
C. W. Halberg	"	Timna, C. & Logan Co.	Hedope	Extraction Co.	"
P. S. Johnson	"	W. A. Clark	Hedope	Rowland & Laey Petro	"
A. J. Laswell	"	J. W. Courtney	Hedope	and Land Co.	"
J. L. Medlin	"	W. T. Gorman	"	Sanago Canyon Silver	"
Oro Mountain Mining Co.	"	A. Harvey	"	Mining Co.	"
J. B. Osborn	"	J. H. Hazlett	"	Tranquillized Mining Co.	"
J. A. Owens	"	J. Jacobs	"	C. W. Rader	Magader
J. D. Quinn	"	Thos. Lawler	"	John Rader & Bro	"
W. T. Steinman	"	J. McGraw	"	A. Ratt	"
W. Leon Mining Co.	"	W. R. Riche	"	D. D. Campbell	"
Brewer & Wheeler	Damasens	Thomas Shultz	"	T. Christian	"
Chas. Anthony	Darwin	A. G. Smith	"	Mrs. C. H. Church	"
A. J. Gould	"	W. A. Wright	"	J. Good	"
James Horry	"	George Sam	Hedope	D. C. Cranford	"
Ran Larell	"	J. H. Raper	Hedope	C. H. Dewey	"
Watkinson & Co.	"	S. W. Cary	"	M. V. Gley	"
John Wilson	"	L. W. Davies	"	M. Goodday	"
Barred Mining Co.	Dendwood	John Gaultitude	"	E. J. Lewis	"
Bismark Mining Co.	"	A. G. Dinges	"	J. McDonald	"
T. Grimes	"	Jas. Goodrich	"	I. McKinney	"
Geo. Halin	"	Hizlett & Coyle	"	J. Macey	"
M. Ramm	"	Geo. Lee	"	W. L. Morgan	"
The Bald Mountain Ex-	"	W. Sam Lee	"	Joe Moore	"
pos. Drill Mng. Co. Downville	"	McLain Bros	"	W. J. Morris	"
Mabel Capital Mng. Co.	"	A. W. Niles	"	J. Moss	"
Mt. Moriah Quartz Mng	"	S. A. Niles	"	J. Mungton	"
Co.	"	Sam Rader	"	C. Polster	"
Emeka Coal Co.	Lemeka	Paul & Trench	"	George Pary	"
Canage & Finkler	Forest Hill	Primes & Brown	"	H. Reilly	"
Dardnell Mining Co.	"	William Pallen	"	R. Shipley	"
Paragon Mining Co.	"	Madame Roberts	"	C. C. Soemmer	"
Cottonwood Mng. & Mng	"	Jell Romane	"	George Walker	"
Co.	St. Radwell	Shornake & Viny	"	H. Weinman	"
Union Mining Co.	Genesee	Silsy & Hughes	"	Thos. Richard	Mataposa
Jas. Brown	Georgetown	Jas. Stirling	"	J. J. Fillingham	"
Chris. Raab	"	W. E. Thomas	"	Francis Mining Co.	"
Balfie Mining Co.	Granbyville	I. Thoni	"	W. T. Galtson	"
P. O. Donnell	"	Runnig & Co.	"	Carlson & Ridgway	"
Eve Mining Co.	"	G. D. W. Cox	"	J. W. Reed	"
Gambians Mining Co.	"	Hirsch Mining Co.	Independence	Geo. Robinson	"
W. McLean	"	Ketsarge Mining Co.	"	Ovid Clark	Marksville
Wabank & Watsons	"	Moxam M. & Mining Co.	"	C. Coleman	"
National Mining Co.	"	John N. Besso	Huskie	Chas. Dindick	"
A. Ricard	"	Robert & Carpenter	"	Al. N. Soren	"
Rocky Glen Mining Co.	"	M. Ruckert	"	Black Maria Cons. Co.	Marquette
P. D. Stevenson	"	John Costa	"	Catskill Travertine Mng. Co.	"
Brunswick Consolidated	"	Dana F. Kautzberg	"	Easton Star Mining Co.	"
Gold Mining Co.	Grass Valley	Thos. McKee	"	Mark, Antony, Gold &	"
Cinch & Co.	"	Booker & Lacy	"	Salvo Mining Co.	"
Henry Davis	"	W. C. Pidge	Hayes	Maraville, Lumbel &	"
Mannon & Reedy	"	R. C. Spears	"	Quicksilver Mng. Co.	"
Merriman Gold Mng. Co.	"	Swenson Bell M. Co.	Jamestown	E. L. Wood Mining Co.	"
Mono Gold Mining Co.	"	Appl & Co.	"	W. C. Ogden	"
Mt. George Mining Co.	"	H. Carlin Jr.	"	John Potter Mining Co.	"
Providence Mining Co.	"	Gray Eagle Mining Co.	"	J. J. Rice	"
Priddy Pacific Cons. Mng	"	Crookshank Co.	Johnson	Jas. A. Smith	Marquette
Co.	Greenville	Conely & Co.	"	Chas. E. Sax & Mng. Co.	"
Johnny Bull Mining Co.	"	Chaparral Mining Co.	Julian	Fillmore Hill Mining Co.	"
		Gold King Mining Co.	"		

NAME	POSTOFFICE	NAME	POSTOFFICE	NAME	POSTOFFICE
Timberline Gold & Silver Mining Co.	Marjessville	Job Pingrey	Ophir	Carson Creek Mining Co.	San Francisco
Blue Jay Gold Mng. Co.	Maybort	Charles Bristol	Orleans	Cons. New York Mining Co.	"
McCulloch & Hutton	Michigan Bar	H. R. Rindson	"	Room 28 Nevada Bldg.	"
Taylor & Tracy	"	J. A. Pearce	"	Crossbow Gold Mining Co.	"
A. J. Bishop	Michigan Bluff	F. P. Wilder	"	Crown Point Mining Co.	"
M. Gorman	"	Eastlick Bros.	Oro Fino	Room 28 Nevada Bldg.	"
G. W. Chick	"	H. S. Ward	"	Danaseus Mining Co.	"
Alfred Dixon	"	Wright & Co.	"	Diamond Creek Colo. Gold & Silver Mfg. Co.	"
Fissell & Co.	"	H. G. Chickering	Panama	237 Sansome st.	"
D. L. Gorman	"	John Curran	"	F. S. Donly	"
H. Frank & Co.	"	Peter Gallagher	"	Fourth & Townsend sts.	"
Harrison & Co.	"	Frederick Russell	Perry	El Leopold Gold & Silver Mining Co.	"
P. N. Jorgenson & Co.	"	Gabalan Mining Co.	"	Golden Prize Cons. Mining Co.	"
Ed. Kavenaugh	"	Henry Krause	"	327 Market st.	"
H. R. Keowee	"	Thos. Mourelouse	"	Gold Mountain Mining Co.	"
Thomas McCall	"	Jerry Shea	"	24 Grant av.	"
W. B. Marshall	"	H. C. Steel	"	Grass Valley Hydraulic & Land Co.	"
Win. Mitchell	"	Reed & Askey	Pine Grove	Gray Eagle Mining Co.	"
Meredith & Co.	"	J. H. Bradley	Placerville	Haven & Haven	"
Muir Tunnel Co.	"	Cedar Springs Gold	"	Head Center & Tranquility Mining Co.	"
Myers & Co.	"	Grove Mining Co.	"	330 Pine st., R. 15 & 17.	"
R. Noble	"	Delmoza Quartz Co.	"	Industrial Mining & Milling Co.	"
S. Park & Co.	"	Epley Gold Quartz Co.	"	Care Nowlin & Fassett.	"
L. Podesta	"	Gentle Annie Gold Quartz Co.	"	Locomotive Mining Co.	"
Win. M. Ray & Co.	"	Gopher Boulder Quartz Co.	"	300 Montgomery st.	"
Roger, Watson & Davis	"	Co.	"	M. J. McDonald Esq.	"
H. Sherman	"	Lyons Gold Gravel Mining Co.	"	Manahoth Garfield Gold Mining Co.	"
P. Shields & Co.	"	C. N. Meyers	"	North Belle Isle Mining Co.	"
Shurt & Co.	"	Pacific Gold Quartz Co.	"	R. 15 & 17, 330 Pine st.	"
Sutcliffe Bros.	"	Perry & Thompson	"	Occidental Cons. Mining Co.	"
E. G. Thompson	"	Parley Gold Quartz Co.	"	69 Nevada Block.	"
Steve Thompson	"	Rimold Gold Quartz Co.	"	Ophir Gold & Silver Mining Co.	"
Frank Fitzgerald	Modock	True Cons. Gold Co.	"	The Original Keystone Silver Mining Co.	"
Sierra Buttes Gold Mining Co.	Mohawk	Plymouth Cons. Gold Mining Co.	Plymouth	330 Pine st.	"
V. A. Berthel	Mohawk	Reaves Gold Mining Co.	"	The Oriole Mining & Milling Co.	"
C. A. Colby	"	Virginia Mining Co.	Pomona	Peach Orchard Gold Mining Co.	"
Geo. Edwards	"	Burke & Lewis	Quartz Valley	Peer Mining Co.	"
Win. Hutchinson	"	J. P. Lee & Co.	"	R. 26 Nevada Block	"
Chong Kee & Co.	"	Edwards & Lee	Quincy	Phoenix Mining & Milling Co.	"
A. Knell	"	D. Contrades	Rail Road Flat	P. Reddy	"
P. Maguire jr	"	Geo. B. Freeman	"	330 Pine st.	"
Pearshall & Estrade	"	L. Fong	Redding	Ruby Mining & Milling Co.	"
Thompson & McNabb	Mono Lake	Judge Aaron Bell	"	Silver Hill Mining Co.	"
Geo. J. Allan	Nevada City	Cleveland Cons. Mines	"	300 Montgomery st.	"
Plummer Quartz Mining Co.	"	Fred Grabtread	"	Sinbeam Gold Mining Co.	"
Thomas Derby	New Almaden	C. K. McEwer	"	Union Cons. Mining Co.	"
C. T. Adams	Newcastle	W. E. Miller	"	300 Montgomery st.	"
Jas. Butts	"	A. E. Paul	"	Western Star Gold & Silver Mining Co.	"
P. M. Cary	"	Texas Cons. Mines	"	Peter Gilles	San Simeon
John Holbrook	"	Pex Gold Mining Co. Ltd. Rich Gulch Consolidated Santa Rosa Mining Co.	"	J. P. Pierce & Co.	Santa Clara
Peter Harris	"	Eagle Mt. Mining Co.	Riverside	Don Carlos Gold Mining Co.	Santa Cruz
Mal. E. L. Hubbard	"	Enterprise Mining & Milling Association	"	Levant Markham Volcano Tunnel Co.	"
R. Jones	"	Monroza Mining & Milling Co.	"	John Dougherty & Co.	Sawyers Bar
J. D. Matthews	"	Twenty-Nine Palms Mining & Milling Co.	"	Exelth & Golden	"
J. H. Mitchell	"	D. A. Wheeler	Rocky Point	Eugene R. L. Co.	"
W. A. Plantz	"	Hopwood & Black	"	John Frank	"
Stephen Quinn	"	McNair & Holt	"	H. & Keller Greshen.	"
Adolph Schmalzel	"	Banner Gold Mining & Milling Co.	Sacramento	Harris Bros.	"
Dr. M. Schmalzel	"	Black Hawk & Gravel Mining Co.	"	Hickey Bros.	"
G. T. Taylor	"	Blair Cons. Mining Co.	"	A. M. Hopson	"
G. L. Threlkell	"	Bonanza Mining Co.	"	W. E. Kline	"
Anton Zantlat	"	Brillon Mining Co.	"	G. A. Mohr & Co.	"
Jacob Zantlat	"	Cambridge Placer & Quartz Mining Co.	"	Murray & Pearson	"
J. B. Brown	Nashew	Best & Belcher Mining Co.	"	Chas. Nicolet	Sawyersville
Rocky strike Mining Co.	"	Room 28 Nevada Block.	"	M. Andrews	Scott River
Oro Fine Mining Co.	"	Black Hawk & Gravel Mining Co.	"	O. D. Campbell	"
S. C. Stevens	North Bloomfield	Blair Cons. Mining Co.	"	Geo. Macolby & Co.	"
C. O. Jensen	"	Bonanza Mining Co.	"	Shelton, Brunt & Co.	"
J. R. Jones	"	Brillon Mining Co.	"	C. M. Bailey	Sonol Valley
Sue Kee & Co.	"	Butte Belle Gold Mining Co.	"	John Bailey	"
R. McKilliam	"	California Range Co.	"	John Seiser	"
R. Rosen	"	321 Market st.	"	Big Canyon Gold Mine & Milling Co.	"
Hansen Quartz Mng. Co.	Nevada			Shingle Springs.	"
F. Anderson	Oak Run			Sierra City	"
Elva Kelley	"				
Lance & Zollhoefer	"				
J. W. Dunlap	Oakdale				
Seaboard Mining Co.	"				
J. W. Woodside	"				
Alameda Co. Imp. Co.	Oakland				
H. Sueno Gold & Silver Mining Co.	"				
Golden King Mng. Co.	"				
G. W. Grayson	"				
A. G. Grenett	"				
W. A. Gunnett	"				
M. Hall	"				
W. I. Lamb	"				
I. W. Roberts	"				
J. A. Stebbelt	"				
Stiles Gold Quartz Mng. Co.	"				
S. B. Storey	"				
Leo P. Whitney	"				
T. F. Johnson	Ogby				
Leeds Murray	Ophir				
B. F. Hartley	Ophir				
F. H. Layville	"				
Wm. Pellow	"				
Lozimo Pilon	"				

NAME	POST OFFICE	NAME	POST OFFICE	NAME	POST OFFICE
Sallinas & Merrett Mining Co.	Sierra City	Wm. H. Parsons	Middletown	McNee & Johnson	Lincoln
Steelman & Hayes Co.	"	J. W. Ransdell	"	Mountaintop Stone Co.	Livermore
Wm. Tell Mining Co.	"	Andrew Rogers	"	P. Hoy	Locusts
Campbell & Co.	Smith River	Geo. A. Stacy	"	James M. Connolly	Lordsburg
Bellevue Mining Co.	Soulsbyville	Col. E. Von Licht & Co.	New Idria	The Dooley Granite Co.	Los Angeles
Jas. Burns	"	New Idria Mining Co.	Oak Hill	C. Scherer	"
Carrie Mining Co.	"	E. A. Hardy	"	122 W. Sixth st.	"
Cons.ureka Mining Co.	"	Bully Choop Mining Co.	Oro	R. Matthews	Lower Lake
Hibbing Bros.	"	Cumberland Mining Co.	"	R. Barton	Idem
T. W. Marshall	"	John & Lewis Barnett	Pope Valley	Baumberger & Lagorio	"
Song, Dove & Co.	"	J. J. Walters	"	P. Christiansen	"
T. Soule	"	California Iron & Steel	"	John Johnson	"
Soulsbyville Mining Co.	"	Wks., Es. California	San Francisco	F. Lund	"
Alex. Dougherty	Spenceville	Robt. Elliott	San Luis Obispo	C. Madison	"
John Sullivan	"	R. E. Jack	"	John McWhorter	"
Thos. Welch	"	William Ladd	Tracy	P. Michelson	"
Stone, Trindler & Co.	Steger			D. C. Posthoff	"
Grizzly Gulch Co.	Stella			E. N. Whisley	"
Richard Hetschel	"			J. Galt	Newcastle
Knickerbocker Co.	"	Mark Hand	Keeler	L. Ayckle	Oakdale
Mad Mule Co.	"	Robert Locket	"	Mamela Macadamizing Co.	Oakland
Mad Ox Co.	"	J. A. McKenzie	"		"
Phoenix Co.	"	Jas. Stanborough	"	Timothy Farm Stone Co.	"
Rattlesnake Co.	"	Sausen Mining Co.	"		"
Red Bluff Co.	"				"
Spring Gulch Co.	"				"
John K. Williams	"				"
Vernie Mining, Milling & Development Co.	Stockton				"
Mrs. J. Mahoney	Sutter Creek				"
R. A. & W. T. Thomas	Sweetland				"
R. W. Beckerton	Tamewood				"
R. H. Brown	"				"
Castello Bros.	"				"
D. I. Dawson	"				"
E. Dixon	"				"
Leona Holman	"				"
Joseph Montizo	"				"
Charles Perry	"				"
Peterson Bros.	"				"
San Jacinto Estate Mining Co.	"				"
Arthur Crowley	Three Rivers				"
Jas. Hamilton	"				"
Marcus Lavalley	"				"
Tom White	"				"
G. W. Barnes	Toll House				"
Black & Ladley	"				"
Bloss & Meloy	Trinity Center				"
Nor. Deep Gravel Gold Mining Co.	"				"
Regan & Roberts	"				"
Strule & Bowden	"				"
Kloss Mining Co.	Victor				"
J. H. Means	"				"
Marland Mining Co.	Washington				"
Spanish Mining Co.	"				"
Washington Mining Co.	"				"
Lake Shore Gold & Silver Mining Co.	Woodland				"
H. S. Thompson	Yankee Hill				"
A. Fox	"				"
H. Hawkins	"				"
E. E. Lund	"				"
J. Nello	"				"
A. Patterson	"				"
J. W. Spencer	"				"
G. W. Stord	"				"
M. H. Wells	"				"
O. W. Ward	Yosemite				"
Birdseye Creek Gold Mining Co.	Yonkers				"
Goodwin & Lawrence	"				"
John H. Huxey	"				"
Southern Mining & Mng Co.	"				"
The Ballarat Mining & Mfg. Co.	Yreka				"
John Daggett	"				"

LEAD AND ZINC

MINERAL PAINT

PHOSPHATE

QUICKSILVER

SALT

SLATE

STONE, GRANITE, MARBLE AND ONYX

CYPRESS

IRON

COLORADO

ASBESTOS

NAME	POSTOFFICE
Asbestos Mining & Manufacturing Co.	Denver
The Pacific Asbestos Co.	"
P. H. Whiting	"
W. H. Jacobson Block	"

ASPHALTUM

American Asphalt Co.	Denver
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COAL

H. H. Eldy	Aniol
James Bros.	"
Pfeiffer & Wheeler	"
Thomas Shirlwin	"
Engene Taylor	"
Isaac McGee	Chapman
Western Coal Co.	Colorado Springs
M. A. Blackner	Cortez
J. V. Carpenter	"
Thomas Coppingner	"
J. H. McCracken	"
G. W. Taylor	"
J. A. Beatty	Delta
Black Diamond Coal Co.	Denver
Caledonia Coal Co.	"
Canon Coal Co.	"
Canon Fuel Co.	"
Colorado Oil & Gas Co.	"
Independent Coal Co.	"
Marshall Consolidated Coal Co.	"
The San Louis Coal & Coke Co.	"
Simpson & Spencer Coal Co.	"
The Sterling Mining & Prospecting Co.	"
City Coal Co.	Durango
Mollar & Brown Coal Co.	Eaton
R. G. Rodgers Coal Co.	"
Cleveland Coal Co.	Erie
Garfield Coal Co.	"
McKissick Coal Co.	"
Saint Vrain Coal Co.	"
Stewart Coal Co.	"
Union Coal Co.	Franceville
Price, Humstone & Carr	Hesperus
Fox Coal Co.	Langford
John F. Moore	La Veta
Marshall Coal Co.	Louisburg
Louisville Coal Mining Co.	"
Edward C. Bart	Louisville
John M. Underwood	Platina
Grand View Coal Co.	Rico
Canon City Coal Co.	Rockvale
J. W. Seabury	San Miguel
Wm. Nuttall	Villa Grove

COPPER

Dr. Allan	Boulder
M. V. Johnson	"
Mrs. Mary Miller	"
J. W. Nicholson	"
Chas. L. Spencer	"
California Mng. Co., Ltd.	Central City
Hill Ranch Mining Co.	"
Saratoga Mining Co.	"
Daniel Jenkins	De Beque
Shirley & Hinds	"
H. C. Parker	Eagle
D. & R. G. R. R.	Florence
Dowder City Mining Co.	Gumison
Engene McCormick	Hillside
J. P. Voss Copper Mine Co.	"
E. Franklberry	La Veta
John Horton	"
T. L. Morgan	Platte Canon
G. H. Reynolds	Ridgeway
A. M. Thomas	"

GOLD AND SILVER

Dunmire & Son	Alder
Dubois & Co.	"
Maud & Hawkins	"
Philips & Ferris	"
Alamosa Mine	Alamosa
Brownlow Mining & Milling Co.	Alma
P. W. Duly	"
Eagle, Stayner & Root	"
Ohio Bonanza Mng. Co.	"
Silver Gem Mining Co.	"
W. Thomas	"

NAME	POSTOFFICE
Wilson Bros.	Alma
Allegany Tunnel Co.	Ashecroft
Elmhira Mining Co.	"
Excelsior Mining Co.	"
Chas. Morrissey	"
Treasure Vault Mining Co.	"
Wm. Warner	"
Wolverine Mng. Co.	"
Yellow Boy Mining Co.	"
Aspen Favorite Mining Co.	Aspen
Aspen Mountain Tunnel & Mining Co.	"
Beir M. M. & M. Co.	"
The Cash Gold Mining Co.	"
Champion Empire Mining Co.	"
The Colorado Mine & Tunnel Co.	"
Holden Mining & Smelting Co.	"
Hunter Park Mining Co.	"
Miller Mining & Tunnel Co.	"
Paystone Mining & Milling Co.	"
Saturn Mining Co.	"
Sheep Mountain Tunnel & Mining Co.	"
Solitaire Mining Co.	"
David Welch	"
Arthur Colburn	Aniol
Hon. H. C. Robinson	Bald Mountain
Hawley Gardner Mining Co.	"
H. B. Morse	"
New California Mining Co.	"
Warlock Mining Co.	Banner
J. M. Alexander	Barry
C. J. Bales	"
W. A. Bray	"
Harry Cocking	"
C. F. Curtis	"
R. E. Daniels	"
W. E. Donnell	"
Ford & Anderson	"
Fred French	"
Dick Houghton	"
S. F. Hunt	"
Chas. A. Jones	"
Chas. L. Lang	"
C. T. Linn	"
Mary McKinney Mining Co.	"
T. S. Mayer	"
W. G. Shearer	"
H. F. Woodend	"
Francis Wright	"
J. C. Palmer	Beaver Creek
W. F. Payne	"
Geo. H. Toof	"
J. A. Davis	Berthoud
J. E. Dudley	"
A. W. Osborne	"
Ed. Pullian	"
B. E. Turner	"
P. Turner	"
J. K. Wallace	"
Carr Mining Co.	Black Hawk
J. Chandra Mining Co.	"
E. L. Drake	"
R. H. Koch, Meinhemet & Co.	"
John & John R. Meller	"
Queen of the West Leasing Co.	"
Running Load Mining Co.	"
A. E. Stanton	"
Toronto Mining Co.	"
Victoria Gold & Silver Mining & Milling Co.	"
Callope Mining Co.	Bonanza
The Express Josephine Mining Co.	"
George Beazee	Boulder
J. C. Boyd	"
Wesley Brainer	"
Wm. Brown	"
Mart Cunningham	"
Chas. Davis	"
Guy Fairhurst	"
James Henderson	"
J. W. Iwan	"
Henry Meyring	"
Geo. Mitchell	"
H. Neelick	"
W. H. Nicholson	"
J. S. Pine	"
J. Wells Smith	"
L. R. Stearns	"
Gus Tent jr	"

NAME	POSTOFFICE
P. J. Worley	Boulder
Jos. Yates	"
Racon Mining Co.	Brokenridge
Ross Nine Mining Co.	"
P. E. Christie	"
Farncomb Hill Mining Co.	"
C. A. Findling	"
E. W. Finkle	"
Governor Mining Co.	"
R. R. Kirk	"
Little Corporal Mining Co.	"
John Mair	"
Mohawk Mining & Milling Co.	"
Olava Placer Mine	"
Puzzell Mining Co.	"
The Gov. Rott Mining & Milling Co.	Brighton
Lawrence Mining & Milling Co.	"
Regua Gold & Silver Mining & Milling Co.	Canon City
Yellow Medicine Mine	Capitol City
Wm. Donald	Carlton
J. L. Loyd	"
Geo. A. Parhick	"
Clay Co. Mining Co.	Central City
Fontaine Mining Co.	"
Fox Hall Tunnel & Mining Co.	"
Golden Treasure Mining Co.	"
Gunnell Mining Co.	"
Hearts Gold Mining Co.	"
Justice Mining Co.	"
Kialto Mining Co.	"
San Juan Mining Co.	Chimarron
Geo. Cauthman	"
W. W. Chme	"
J. Dickey	"
A. C. Fay	"
N. A. Thomas	"
Murdie M. & M. Co.	Clancy
John Craven	Climax
Pat Dobbin	"
Jos. Fischer	"
John Johnson	"
J. W. Lewis	"
Sid. McKeelley	"
Mike Ward	"
Colorado City & Manitou Pros. & Mining Co.	Colorado City
Adde E. Mining & Milling Co.	Colorado Springs
Antlers Mining & Milling Co.	"
Randora M. & M. Co.	"
Bentrice Cons. Mining Co.	"
Beaver Creek M. & M. Co.	"
Big Pocket M. & M. Co.	"
Big Bell M. & M. Pros. Co.	"
Brookvale Mining & Tramway Co.	"
Cleopatra Mining Co.	"
H. Colbran	"
Cut Diamond Mining & Milling Co.	"
Des Jones Gold Mining Co.	"
The Economic Mining & Reduction Co.	"
Edna Mining & Milling Co.	"
Edridge Cons. Gold Mining Co.	"
Ellac Mining & Milling Co.	"
Enterprise Mining & Land Co.	"
The Etta Consolidated Mining Co.	"
Expert Mining Co.	"
Florence E. Mining Co.	"
Goldstone Mining Co.	"
Gold Geiser Mining Co.	"
The Lemhi Placer Mining Co.	"
The Leslie E. Keeley Mining & Milling Co.	"
Little Maud Mining Co.	"
Lottie Gibson Mining & Milling Co.	"
Magna Charta Mining & Milling Co.	"
Mammoth Gold Mining Co.	"
Manitou M. & M. Co.	"
Midland Gold Mining Co.	"
Mothie Eppert Mining & Milling Co.	"

NAME	POSTOFFICE	NAME	POSTOFFICE	NAME	POSTOFFICE
Monument-Treasure-Mining & Milling Co.	Colorado Springs	Peruvian Gold Mining Co.	Apple Creek	Jackson Mining & Exploring Co.	Denver
Mount Esther Mining & Milling Co.	"	Rosette Mining Co.	"	Little Anconada Mining & Milling Co.	"
Mt. Rosa M. & L. Co.	"	The T. O'Shanter Gold Mining Co.	"	Little Gold Mining & Milling Co.	"
Mutual M. & M. Co.	"	The Tenonj Mining & Milling Co.	"	The Loop Gold Mining Co.	"
Myrtle Mining Co.	"	The Vera Benner Mining & Milling Co.	"	Lincoln-South Silverizer Mining & Milling Co.	"
Napoleon Gold Mining & Milling Co.	"	R. A. Work.	"	Merged Gold Mining & Investment Co.	"
Nidar Mining & Milling Co.	"	F. E. Wortman.	"	Miller Mining & Tunneling Co.	"
Poland Mining Company	"	P. Conroy	Crisman	Mineral Developing Co.	"
Pony Express Mining Co.	"	Geo. Keenan	"	The Mint Mining Co.	"
Princess Gold Mining Company	"	Dave Vessels	"	Mt. Elbert Mining & Milling Co.	"
Railway Conductors Mining & Milling Co.	"	Geo. L. Williamson	"	New Zealand Mining Co.	"
Ranoma M. & M. Co.	"	The Creedmoor Mining Co.	Del Norte	Orphan Girl Cons. Mining & Milling Co.	"
Red Mountain Coal Bell Mining Co.	"	Esquitable Mining & Prospecting Co.	"	The Pio Mining & Milling Co.	"
Rock Glen Town & Mining Co.	"	Home Run Mining Co.	"	Pneumatic Ore Mining & Milling Co.	"
Rock Island Gold Mining & Milling Co.	"	American Girl Mining Co.	Denver	Reino Mining & Milling Co.	"
Rocks Mt. M. & Investment Co.	"	Arquea Phoebe & Lode Mining Co.	"	The Rio Grande Gold Phoebe Mining Co.	"
Scotia Mining & M. Co.	"	The Arvella Tunnel & Mining Co.	"	The Rising Sun Mining & Milling Co.	"
Summit M. & M. Co.	"	The Atlanta & Creede Mining Co.	"	Rhyolite Mining & Milling Co.	"
Sunny Bell Mining & Milling Co.	"	Bachelor Mount Mining & Milling Co.	"	Rio Grande Valley Prospecting & Mining Co.	"
The Uncle Sam Mining & Milling Co.	"	Barbara Gibson Mining & Milling Co.	"	Roman Cons. Gold & Silver Mining Co.	"
Washington Mining Co.	"	Barthol Mining & Milling Co.	"	Salmon River Phoebe Mining Co.	"
Wyatt Mining Co.	"	The Beacon Mining & Milling Co.	"	The Sanford Mining Co.	"
Yule Creek Marble & Mining Co.	"	Bernice Mining & Milling Co.	"	Shasta Queen Mining Co.	"
F. C. Bennett	Concho	Billabo Creek Gold Mining Co.	"	Shonabob Mining & Milling Co.	"
Nella Elve Mining & Milling Co.	Copper Rock	Birdon Gold & Silver Mining Co.	"	Summit Mining & Smelting Co.	"
A. Barrett	Cortez	Camden Mining Co.	"	The Sun-Set Gold Mining Co.	"
J. Billingsley	"	Camp Bird Mining & Milling Co.	"	Sutton Mining & Milling Co.	"
S. Biley	"	Cardinal Mining & Milling Co.	"	The Labor Investment Co.	"
John Bickley	"	Carlton Cons. Mining Co.	"	Labor Mines & Milling Co.	"
W. E. Crane	"	Chemical Anal. Mining Co.	"	Lorons-Medical Mining & Milling Co.	"
Jas. W. Hanna	"	Chicago & Creede Cons. Mining & Milling Co.	"	Union Trust & Loan Co.	"
J. B. Thomas	"	Colorado Apple Creek Gold Mining Co.	"	The Warren Gold Mining & Milling Co.	"
A. L. Thompson	"	Colorado Enterprise Mining & Milling Co.	"	Windsor Mining Co.	"
John Watson	"	Colorado & Mexico Exp. & Dev. Co.	"	Wyoming & Colorado Mining, Milling & Investment Co.	"
Black Bros.	Cottonwood Spgs	The Cons. Silver Mining Co.	"	The Yankee Hill Mining & Milling Co.	"
A. M. Deemey	"	Copper Rock Gold Mining Co.	"	Adolph Balla	Dillon
Fox Bros.	"	Theoson Development Co.	"	Thos. Darns	"
A. M. Morse	"	Cripple Creek Gold Extr. & Dev. Co.	"	C. F. Leonard	"
Annie Rooney Mining & Leade	"	Currency Mining Co.	"	Thos. Hamilton	"
Chap. Ford Mining Co.	"	De Mott Mines Syndicate	"	John Makay	"
The Common Sense Mining Co.	"	The Denver Boy Gold Mining & Milling Co.	"	Richard Sawyers	"
Ethel Mining Co.	"	The Dungen Pure Gold Mining Co.	"	A. L. Van Alstine	"
Meister & Morgan	"	The Elkhart Cons. Mining Co.	"	Edw. Ward	"
Park Acient Cons. Mining Co.	"	The Fair Chance Mining Co.	"	C. C. Warren	"
Rail Collins Tunnel Co.	"	Free Gold Hill Cons. Mining & Milling Co.	"	A. L. Wilson	Dolores
Stanhope Mining Co.	"	Florilla Mining & Milling Co.	"	J. H. Wright	"
Watsons Mining Co.	"	Garfield Coal Mining Co.	"	J. H. Knight	"
Furka Mining Co.	Crested Butte	Globe S. & R. Co.	"	W. M. May	"
Excelsior Mining Co.	"	The Gold & Silver Extraction Mining & Milling Co.	"	John Neill	Dumont
Indavante Mining Co.	"	The Gold Maid Mining & Milling Co.	"	John Anderson	"
Irwin Mining Power Co.	"	Golden Rule Mining Co.	"	F. S. Bailey	"
Jenny Lind Mining Co.	"	The Great Southern Gold & Silver Mining Co.	"	Edward Bowden	"
Ruby King M. Co.	"	The Gregory Silver Mining & Milling Co.	"	W. L. Boyd	"
Harrison Nash	Costone	Grey Eagle & Alabontas Cons. Mining Co.	"	E. W. C. Hunt	"
Peer Mining Co.	"	Hamburger Mining & Prospecting Co.	"	Chris Lawson	"
Armadillo M. & M. Co.	Cripple Creek	Idaho Springs Mining & Developing Co.	"	Alex. Cooper	"
Bentla Gold Mining Co.	"			S. Dingle	"
The Blue Bell Mining Co.	"			M. Dingle	"
Blue Bird Phoebe M. & M. Co.	"			J. F. Drake	"
A. Bowler	"			J. C. Fastley	"
Brewster Bros.	"			S. Eldred	"
The Bull Hill Mining & Tunneling Co.	"			Thos. Green	"
C. Calamus	"			H. M. Jones	"
California Gold Mining & Milling Co.	"			Kaveth Mining Co.	"
Comstock Eldredge Gold M. & M. Co.	"			Amos Knudt	"
Cripple Creek Brokerage & Investment Co.	"			J. W. La Mayson	"
Cripple Creek Phoebe Mining Co.	"			S. A. Larrabee	"
The Cripple Creek Silver Bell Mining Co.	"			Ohio Culeh Mining Co.	"
M. A. Dickinson	"			Onion Pearl	"
G. A. Darrow	"			Ned Pearl	"
Edw. A. Davidson	"			Alex. Seaton	"
Gold Deposit Mining Co.	"			J. W. Smith	"
L. G. Halley	"			Phil Stephens	"
Peter Helzig	"			S. Thompson	"
J. L. McCoy	"			C. Whitcomb	"
J. P. Madden	"			D. F. Wilson	"
Matt-shall & Adams	"				
The Mattie W. Mining & Milling Co.	"				

NAME	POSTOFFICE	NAME	POSTOFFICE	NAME	POSTOFFICE
Oro Pima Mining Co.	Durango	Pitkin Mining Co.	Gunnison	Carlson Mining Co.	Lake City
Bertolt Bros.	Esacle	Frank Allen	Gypsum	Jas. Colville	La Veta
Webb Trust	"	Beach & Waldron	Hahn's Peak	E. L. Dryden	"
S. J. Hookett	"	Chas. Gibson	"	Win. Springer	"
Clear Creek Mining Co.	Empire	A. S. Hutchinson	"	O. D. Stappin	"
Little Howard Mining Co.	"	Cashier M. Co.	Hall Valley	Taylor Markey	"
North Mining Co.	"	Connet Cons. Mining Co.	"	E. F. Wayne	"
Gardina Mining Co.	"	Great Eastern Mining Co.	"	Joe Reynolds M. Co.	Lawson
E. J. Carley	Empire	J. M. Kline	"	Albion Mining Co.	Leadville
Empire Mining Co.	"	Eugene Knight	"	Edgar S. Co.	"
Little Josephine Mining Co.	"	Whale Mining Co.	"	The Leadville Mines-Leas-	"
" Co.	"	D. H. Wilson	"	ing Co.	"
Win. McFarland	"	W. E. Baldwin	Haworth	Huber Mining Co.	"
J. D. Niswonger	"	Frank Brazz	"	Twin Lakes Hydraulic	"
W. H. Taggart	"	J. F. Bush	"	Gold Mining Co.	"
Geo. W. Tallman	"	Samuel Carder	"	Long's Peak Mining &	"
Cato Mining Co.	Fairplay	Mike Connor	"	Milling Co.	Lougment
Mud sill Mining Co.	"	O. H. Dunham	"	M. A. Rowen	"
Thos. Sheldon	"	Leslie Gillette	"	F. Beaumont	Magnolia
Henry Boulder	Fairham	Salen M. Hardy	"	C. Buckingham	"
L. Gilbert	"	Gilbert Hayes	"	M. Conrington	"
E. Rollins	"	John Howard	"	Forlorn Hope Mining Co.	"
West Bros.	"	James Kelly	"	T. Graham	"
F. W. Wood	"	William Kerr	"	A. Haly	"
Blue Belle Mining Co.	Florescent	Henry McGulley	"	G. Lytle	"
F. F. Castello	"	J. Moore	"	J. Martin	"
N. S. Davis	"	J. Matthews	"	J. Maxwell	"
Thos. Donnell	"	A. E. Reynolds	"	J. Reid	"
Florescent Mining Co.	"	Speck & Ruspier	"	W. F. Sale	"
D. S. Scott	"	Thomas Vals	"	W. Strickland	"
John Wilson	"	Rauch Bros.	Hebron	J. G. Price & Co.	Manco
C. L. Wilson	"	T. C. Graden	Hesperus	John Wersch	"
Forrest Mining Co.	Fort Collins	J. D. S. Hopkins	"	Manhattan S. M. & M. Co.	Manhattan
Relief Mining & Milling Co.	"	J. D. Laird	"	Agnes C. Mining Co.	Manitou
Seven Mile Mining & Milling Co.	"	W. B. Ritter	"	Calumet M. & M. Co.	"
Valerie Mining & Milling Co.	"	Wm. T. Vails	"	Chande Mining & Milling Co.	"
W. Z. Cozens	Fraser	Dr. J. P. Wallace	"	Empress of Aspen Mining Co.	"
D. Morgan	Fullford	L. R. Hayden	"	Joseph Barnes	Marble
J. Taylor	"	John Howard	Holy Cross	L. B. Chiles	"
Gold Link Mining & Milling Co.	Geneva Falls	Cross Creek M. Co.	"	Embrey Bros.	"
Cascade & Hudson Co.	Georgetown	French Min. M. Co.	"	E. E. Nisbett	"
Guy F. Clark	"	Empress Mine	Horseshoe	E. Gilley	Meeker
Thos. Cornish	"	Jonah Fargrabin	Howard	Geo. Welty	"
Dunderburg Mining Co.	"	John Taylor	"	P. M. Deek	Mineral Point
M. S. Eagan	"	A. M. Wason	Howardsville	P. C. Logan	"
Kerley Mine	"	Ed. Rindschuder	"	Polar Star Mining Co.	"
Montreal Mining Co.	"	Hy Forsyth	"	Sycause Fide M. Co.	"
Pay Rock Mining Co.	"	Andrew Kanth	"	Silver Friend M. Co.	Monarch
Pebble Mining Co.	"	O. D. Kimball	"	Jeherson Mining Co.	Moravien
Seven-Thirty Mining Co.	"	Louis Meyer	"	The American Cons.	"
Terrible Mining Co.	"	R. Negold	"	Mining & Milling Co.	Abund City
Win. Brennan	Glenwood Springs	O. A. Nelson	"	Potosi Mining Co.	Mt. Snelbels
Broad Mountain Mining Co.	"	Ed. Olson	"	Revenue Tunnel Co.	"
Defiance Mt. Mining Co.	"	T. M. Reidel	"	Trust Rels. Mining Co.	"
W. K. Bevernary	"	T. M. Trippet	"	Wheel of Fortune Mine	"
H. W. Emen	"	C. J. Allen	Idaho Springs	Cottonwood Placer Co.	Saturita
T. C. Ewing	"	J. J. Elliott	"	D. W. Lawrence	"
J. H. Fowler	"	Fortuna Gold & Silver Mining Co.	"	Paul Warner	"
Chas. First	"	Idaho Springs Mining & Development Co.	"	Richard Clements	Nederland
Wm. Geller	"	Louisa M. Abbott Co.	"	C. M. Edwards	"
Glenwood Mining Co.	"	H. P. Lowe	"	W. Helzer	"
H. R. Kamm	"	David Lumley & Co.	"	James L. Hughes	"
Ed Kornpakt	"	Mahow & Sullivan	"	George Light	"
C. S. Lee	"	F. F. Osbiston	"	Charles Lowless	"
P. Meadows	"	W. C. Repshaw	"	Thos. Matters	"
Robt. Murray Mining Co.	"	Herbert Westcott	"	Fred Minimax	"
John Shuman	"	Carbonate King Mining Co.	"	Pierre Press	"
Little Josephine Mining Co.	"	Colorado Box Mining Co.	Ironton	John Rodell	"
Cash M. & M. Co.	Golden	John Ferrill	"	Wm. H. Snelson	"
King Mining Co.	Gold Hill	J. L. C. Mining Co.	"	L. H. E. Soersen	"
Long Gulch Mining Co.	"	Kentucky Mining Co.	"	Capit. C. A. Trollope	"
Prussian Mining Co.	"	Madison Green Mining Co.	"	Guy Wang	"
St. Joe Mining Co.	"	Geo. W. Oakes	"	C. K. Packard	New Windsor
Victoria Mining Co.	"	Paymaster Mining & Milling Co.	"	Joe Auspigh	Ophir
J. A. Goodwin	Gofine	Roscoe Tankling Mining Co.	"	Gold Tow & Osceola Co.	"
A. J. Grant	"	The Argo Gold Mining & Milling Co.	Jackson	Leonard Sears	"
Mining & Milling Co.	Grand Junction	James Conway	"	James Reil	"
Geologic Mining & Milling Co.	"	F. C. Dunbar	Jamesstown	Ed. Silsby	"
Isaac Alden	Grand Lake	W. H. Emmanuel	"	Garbald Mining Co.	Pro City
J. Carries	"	W. J. Evans	"	Iron Silver Mining Co.	"
L. Collin	"	Chas. Fawcett	"	Joseph Carlson M. Co.	"
A. A. Earhart	"	J. Jay Mining Co.	"	La Platte Mining Co.	"
J. Elliott	"	A. J. McCorkle	"	Lea Mining Co.	"
W. C. Gregg	"	Tim O'Connor	"	Lahan Antioch Mining Co.	"
John Smart	"	Shungler Mining Co.	"	Wanne & A. Y. Mining Co.	Oster
Greedy Mining & Milling Co.	Greely	Geo. Walker	"	James Pratt	"
Big Pocket Mining Co.	Green Mt. Falls	J. W. Barnes	La Garita	John Gray	"
Green Mt. Falls Co.	"	Mark Bredell	"	Assa Poor	"
Jewett Tunnel	"	D. H. Dunn	"	John Sullivan	"
The Gunnison Prospecting Mining & Milling Co.	Gunnison	W. F. Knollton	"	Humboldt Mining & Milling Co.	Ouray
J. S. Lawrence	"	J. R. McLeod	"	Keno Mining Co.	"
John McOmbeck	"	C. D. Nickel	"	Menapua Mining Co.	"
Petrole Placer Mining Co.	"	J. S. Sanderson	"	Monro Park Mining Co.	"
		J. H. Shaw	"	Ouray Gold Mining Co.	"
		James Stone	"	Ruby Mountain Mining & Milling Co.	"
				Silver King Mining Co.	"
				G. W. Tuzigant	Park Dale

NAME	POSTOFFICE	NAME	POSTOFFICE	NAME	POSTOFFICE
W. H. Murray	Park Dale	Black Hawk Mining Co. Reno		Con. Murphy	Summit Park
John McNaughton	Prisma	J. O. Campbell		J. W. Ransford	
J. H. Randolph	"	C. H. Carpenter	"	E. E. Sharpard	
I. O. Sandborn	"	Wm. Chesman	"	Beck Creek Mining Co.	Telluride
Marvin Stewart	"	Enterprise Mining Co.	"	Geo. A. Britte	"
L. C. R. Case	Parrot	Grand View Mining Co.	"	F. M. Dunlap	"
Ernest Richardson	"	Paul Kirby	"	Gold King Mining Co.	"
C. C. Vaughan	"	Leda Davis Mining Co.	"	Hector Mining Co.	"
S. & C. Wheeler	"	Logan Mining Co.	"	Mendota Mining Co.	"
The Chronicle Mining Co. Pitkin		F. J. Neely	"	E. L. Runkle & Co.	"
Colburns G. & S. Min-		Wellington Mining Co.	"	The Telluride Consol-	
ing Co.	"	Dr. Crawford	Ridgway	idated Mining Co.	"
Gold Brick Mining &	"	Thos. Heron	"	Chas. A. Noble	Thomasville
Milling Co.	"	H. L. Judd	"	Geo. M. Noble	"
Silver Basin Mining Co.	"	Fred H. Turner	"	John C. Packard	Timbup
Tycoon Mining Co.	"	Belmont Dev. Co.	Robinson	Chas. Laramie	"
Robert Bertou	Placerville	Crown Point Mining Co.	"	R. C. Gray	"
S. P. Bingham	"	Diamond Mining Co.	"	Wm. Haynes	"
J. C. Clare	"	Ewing Leasing Co.	"	J. P. Kohn	"
Walter Evans	"	G. R. H. Mining Co.	"	Thos. McAditt	"
M. K. Hall	"	Honestake Mining Co.	"	F. B. Massey	"
San Miguel Hydraulic	"	Rattler Mining Co.	"	E. Mitchell	"
Mining Co.	"	St. Louis Mining Co.	"	V. S. Perrault	"
W. L. Steele	"	Town Site Mining Co.	"	W. W. Allen	Tonipah
W. H. Wheeler	"	H. E. Woods	"	J. D. Curtis	"
S. W. Young	"	W. Yavengood	Rockwood	S. S. Dawson	"
John Barnhardt	Portland	John Neary	"	Edo Granger	"
C. S. Clark	"	E. S. Bond	"	Jas. Metcalf	"
J. B. Clemens	"	E. A. P. Brown	Rollinsville	A. L. Rankin	"
G. Franklin	"	Grand Union Co.	"	Richmond Gold & Silver	"
S. Overy	"	J. P. Leaning	"	Mining Co.	"
R. Perkins	"	Newport Mining & Mfg.	"	J. W. Whittington	"
E. Bewald	"	Ed. J. Stephenson	"	Trimadad Gold & Silver	"
Frank Gould	"	Red Raven Cons. Min-	"	Mining Co.	Trimadad
P. Varden	"	ing Co.	Ma-	Bright Hopes Mining Co. Front Lake	
W. Waker	"	M. O. Roostman	Remley	Bon. & Sister Green	"
C. Ward	"	Joseph Russell	Russell	" " " "	"
Albion Mining Co. Pueblo		Mountain Lion Mining	"	Chas. Mining Co.	"
Belcher Hill Mining Co.	"	& Mining Co.	Sigmonne	Iron Springs Mining Co.	"
Captain Ince Mining Co.	"	Prosper Mining Co.	St. Louis	Jos. T. Roberts	"
Crescent Mining Co.	"	Edson Gold Mining &	"	San Juan Mining Co.	"
Copper Monarch Mining,	"	Smelting & Refining	"	A. H. & A. Anderson	Twin Lakes
Co.	"	Hugo Brunk & Co.	San Isabel	W. H. Baer	"
Denver City Cons. Min-	"	Howard Hopkins	"	Wall A. Buchanan	"
ing Co.	"	Barney McCarthy	"	Geo. I. Collins	"
Diamond E. M. Co.	"	Harrison Nash	"	John Connors	"
Franklin Mining Co.	"	Belmont Mining & Mfg-	"	J. Hutchinson	"
International Mining Co.	"	ing Co.	San Miguel	George Lane	"
J. A. Jay	"	F. A. Dunlap	"	Loess & Henry Market	"
The Lead Hill Mining &	"	Gold King Mining Co.	"	Jas. Runkle	"
Milling Co.	"	Hilgenhaus, Morse & Co.	"	E. E. Shattop	"
Lucky Tunnel Mining Co.	"	John & Weller	"	John A. Storme	"
Nellie Sanborn Mining	"	Keystone Gold Mining	"	Walter Carter & H.	"
Co.	"	Co.	"	London	"
Philo S. & R. Co.	"	Keystone Placer Co.	"	De A. F. Wright	"
Phil Sheridan Mining &	"	John McLean	"	P. L. Griffith	Villa Grove
Milling Co.	"	F. W. Runkle	"	J. B. Hall	"
Pueblo Bell Mining &	"	Turkey Creek Mining Co.	"	W. J. Hall	"
Milling Co.	"	Union Mining & Milling	"	Carol M. Mining Co.	Virginia
Pueblo Cons. Gold Min-	"	ing Co.	"	Monarch Mining Co.	"
ing Co.	"	Chas. Austin	St. George	Feather Mining Co.	"
Pueblo & Creede Mining	"	F. P. Bunnell	"	Charles G. Hetherly	Wagot, Wheel Gap
& Milling Co.	"	F. H. Sanderson	Shoptsdale	Patton & Son	"
Pueblo S. & R. Co.	"	Booker & Lydon	"	G. W. Thorne	"
Rocky Mountain Mining	"	Wm. O. Lark	"	H. Tonn	"
& Development Co.	"	John T. Reed	"	Waters & James	Waldenburg
Spring Creek Gold Min-	"	Taylor & Jack	"	Silver Mount Mining Co. Waldenburg	
ing & Milling Co.	"	The Bassick Contract Gold	"	Raylor Mining Co.	Ward District
Arthur Shumzler Gold	"	Assayer Mining & Mill-	"	Colubia Mining Co.	"
Mining Co.	"	ing Co.	Seeleyville	Gambus Mine	"
E. B. Wicks	"	John Dietz	"	N. Ward & Mandoline	"
Yellow Jacket Mining &	"	H. W. Toss	"	Mining Co.	"
Milling Co.	"	Geyer M. & M. Co.	"	Orange Mt. Mine	"
J. J. Campbell	Red Cliff	W. W. Lavee	"	John Reed	"
Champion Cons. Mining	"	Soyler & Hammond	"	Rocky Hope Mining Co. W. S. High, 4 Strongs	
& Milling Co.	"	H. Townsend	"	John Anderson	White Cross
H. G. Da Lee	"	Gabriel Bartolomen	Silver Plume	George Boyd	"
J. L. Epler	"	Payson & Co.	"	J. H. Brown	"
Ground Hog Mining Co.	"	Thomas J. Foster	"	Jas. Chapman	"
D. A. Mills	"	James Hinds	"	Consolidated Mining Co.	"
Geo. E. Simonton	"	Ernest Root & Co.	Silverton	M. T. Holland	"
Jas. Smithton	"	Silverton Mining Co.	"	Leonard Low	"
Chas. H. Taylor	"	A. Dunning	Storoxall	Park View Mining Co.	"
Harry Williamson	"	Paul Adams	Seeleyville	Res. Gold M. Co.	"
Wyoming Valley Mining	"	A. H. Berth	"	Jas. South	"
Co.	"	Colburn M. Mining Co.	"	Jas. Stanback	"
American Belle Mining	"	Geo. Canfield	"	George Wilson	"
Co.	Red Mountain	G. G. Cones	"	H. L. Wright	"
Bob Tail Mining Co.	"	R. L. Cones	"	Robt. Terhsworth	W. S. High, 4 Strongs
Carbonate King Mining	"	W. H. Fresso	"	Wm. C. Samuels	"
Charles N. Collins	"	J. Henderson	"	John H. Smith	"
Coal Belle Mining Co.	"	Samuel Johnson	"	O. Spaulman	"
Genessa Vanderbilt Min-	"	S. G. Knott	"	Alvin Stump	"
ing Co.	"	Milton Mining Co.	"	A. G. Tompeter	"
Gaston Ltd. Mining Co.	"	J. P. Abnell	"	Orval Varn	"
National Belle Mining	"	J. L. Murray	"		
Co.	"	C. J. Pate	"		
Silver Lake Syndicate	"	C. J. Patridge	"		
Mining Co.	"	S. R. Shultz	"		
Yankee Coal Mining Co.	"	J. H. Thompson	"		
A. P. Adams	Reno	H. S. Hickox	Summit Park		
		G. W. Ingram	"		

CYPsum

Denver Cypsum Co. Denver

IRON

E. W. Lewis, Commission
J. M. Onick, Hills

NAME	POSTOFFICE
Gen Mining Co.,	Hillside
Jas. A. Brown,	Meeker
Frank Hoffman	Osier

LEAD AND ZINC

Wm. Brown	Jamestown
Chas. Kelley,	Ridgeway
J. A. Stuart,	"
Fold & Co.	Robinson
D. H. Lewis	Sargents
Capt. J. F. Allen	White Pine

MICA

New Mexico Mica Mining Co.	Denver
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MINERAL PAINT

Franklin Paint Mills	Denver
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SLATE

Vale Creek Slate & Mining Co.	Colorado Springs
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STONE, GRANITE, MARBLE AND ONYX.

J. L. Chaston	Albany
J. J. Smith	Beaver Creek
Henry Breach	Boulder
G. W. Gage	"
W. Iredale	"
T. R. Owen	"
Ed. Williams & Co.	"
J. N. Williams	Bridgeport
Dumfriesburg Mine	Colorado Springs
Douglas Lavan Co.	Orlando
Orlando McNeill	"
Stewart, Steno & Co.	Steno
Peter Ravstrom	Canby
James Boyle	De Beque
Cherry Red Sand Stone Co.	Denver
Douglas Stone Quarry Co.	"
Edgewood	"
Mexican Onyx Co.	"
Ray & Savard, cor. W. 1st	St. Louis
House & Bea	Dolores
G. W. Atkinson	Florissant
Stout Stone Quarries	Fl. Collins
Frederick Sandstone Co.	Glenwood Springs
J. E. & Wm. Church	Golden
J. Simmons	"
F. G. Ziegler	Gunnison
Coppenher, Jackaway & Smith	Hesperus
V. I. Edwards	"
A. Wild	Leadville
J. W. Timblison	Lyons
R. E. Barnett	Manhattan
W. C. Holmes	"
T. J. Montgomery	"
J. Zimmerman	Marble
W. D. Perry	"
F. E. L. Raymond	"
J. B. Wheeler & Co.	"
Wood & Kline	"
Dick Toy	Meeker
Sam C. K. Arker	Monarch
Newcastle Kaidin Mining & Mfg. Co.	Newcastle
J. J. Carlett	Osier
Jenkins-Ferguson Co.	"
A. T. Ross	"
Porter Coal Co.	Porter
Pneumatic Plaster Co.	Pueblo
J. A. Hume	Rangely
Chas. Helley	"
J. W. McCaslin	"
R. Toney	"
E. Stanton	Ridgeway
J. Hocking	Rockwood
R. W. English Lumber Co.	Salt Lake
Western Onyx Marble Co.	"
Otto Read	San Miguel
W. C. Washington	Silt Creek
J. Irwin	Thomasville
Miller Creek, L. & L. Co.	"
H. Alexander	Twin Lakes
F. Mooney	Walsenburg

CONNECTICUT**COLD AND SILVER**

E. C. Batters	Bridgeport
Austelitz Gold Mining Co.	Norwich
Mine Hill Quarry Co.	Rocky Hill

IRON

NAME	POSTOFFICE
Lathrop M. & Red. Co.	Hartford
Kent Iron Co.	Kent Furnace
Davis Digging Co.	Lakeville
Forbes Ore Bed	"
Geo. H. Burgess	New Haven
Brook Pitt Mining Co.	Ore Hill
Chaffield Mining Co.	"

STONE, MARBLE, GRANITE AND ONYX

C. B. Wooster	Ansonia
Frank Armstrong	Bridgeport
Bridgeport Quarry Co.	"
P. Garvey	"
J. S. Hubbard	"
J. W. Southey	"
Connecticut Brownstone Co.	Cromwell
New England Brownstone Co.	"
Alvin Collins	Danbury
A. M. Curtis	East Glastonbury
Lester Holmes	"
H. T. Linger	"
J. D. Mead	East Killingly
T. Rife & Son	Groton
Henry Webb	"
J. Seely & Son	Hartford
Self Belden & Son	"
Alexander Dallas	"
Haddam Granite Quarry Co.	Middleton
Swindle & Murphy	"
T. M. Clark	Milford
Opie & Cady	Mystic
Theresa Bros.	New Britain
John Hauma	New London
C. E. Stoll	Niantic
Booth Bros.	"
James V. Luce	"
David McNaughton	"
Whitstone Granite Co.	"
White Granite Co.	"
F. B. Dury	Norwich
O. F. Gibson	Orono
Gorman Bros.	S. Manchester
J. W. Boswell	Stirling
Brantford Granite Co.	Stony Creek
J. N. Derle & Co.	"
R. R. Lull	"
W. H. Osborn	Willimantic

DELAWARE**STONE, GRANITE, MARBLE AND ONYX**

Daniel Dougherty	Wilmington
Green Serpentine Marble Co.	"
"	"
McKendrick & Scott	"
416 E. Eleventh St.	"
P. P. Tyne	"

FLORIDA**PHOSPHATE**

Capital Phosphate Co.	Anthony
Compagnie des Phos- phates de France	"
Andren & Meadows Co.	"
J. W. Roberts Phosphate Co.	"
"	"
Florida Phosphate Co.	"
Florida Phosphate Co.	"
Summit Co.	"
Atlanta & Florida Phos- phate Co.	Arcadia
Altha River Phosphate Co.	Bartow
Berkley Phosphate Co.	"
Brown Valley Phosphate Co.	"
"	"
Chert Phosphate Co.	"
J. M. Clement	"
Frank Hughes	"
Hunt, Lay & Joslyn	"
M. W. La Rue Phos- phate Co.	"
Lay Phosphate Co.	"
Lynn Phosphate Co.	"
Plant City & Bartow R. R. Co.	"
"	"
Tenasco Phosphate Co.	"
Tennessee & Florida Land Co.	"

Glen Alice Phosphate Co.	Bay Hill
Baldwin Phosphate Co.	Blue Springs
Bowling Green Phos- phate Co.	Bowling Green
E. W. Dike	Chilpey
Adams & Gordon Phos- phate Co.	Citra
Dunbar Phosphate Co.	Cleveland
Cleveland Phosphate Works	Cleveland
De Land Manufacturing Co.	De Land
Hurns Chemical Co.	Dunedin
Dunedin Phosphate Co.	Dunedin
Early Bird Phosphate Co.	"
Evans & Hubbard	"
International Phosphate Co.	"
Prospect Phosphate Co.	"
L. E. Licks & Son	Elaville
J. C. McGinn	Fernandina
R. Orant & Co.	"
Jas. Morrison	Fort Mead
Lee County Phosphate Co.	Fort Myers
R. G. Perini	Fort White
Gainesville Phosphate Co.	Gainesville
Phosphate Manufactur- ing Co.	"
G. W. Sutherland	"
Wacassissa Phosphate Manufacturing Co.	"
Diamond Phosphate Co.	Istachatta
Imperial Phosphate Co.	"
Silver Phosphate Co.	"
Boa Granite Pebble Co.	Jacksonville
Bowling Green Phos- phate Co.	"
Clarkson, Robertson & Co.	"
Florida Development Co.	"
Little Bros. Fertilizer & Phosphate Co.	"
Maitland Phosphate Co.	"
Pebble & Soil Phosphate Co.	Kendrick
Florida Pebble Phos- phate Co.	Kissimmee
Larococh Phosphate Co.	Larococh
Argyle Phosphate Co.	Lake City
A. A. Scott	Lakeland
Citrus Queen Phosphate Co.	Leesburg
Chlorine Phosphate Co.	"
Gem Phosphate Co.	"
N. & S. Altha River Phos- phate Co.	"
Salter Phosphate Co.	"
J. T. Jones	Ocala
Northeast Phosphate Co.	"
New York Phosphate Co.	"
Pawssell Phosphate Co. & Mining Co.	"
Penninsular Phosphate & Mining Co.	"
Phosny Phosphate Co.	"
Standard Phosphate Co.	"
Withlacoochee River Phosphate Co.	"
Zander Phosphate Co.	"
Bernardo Phosphate Co.	Oriole
Crown & Crescent Phos- phate Co.	Orlando
W. L. McLaughlin	"
Orange & Co.	"
J. B. Parramore	"
J. H. Deim	Palm Bay
Shell Mound Phosphate Works	Panama
Panama Phosphate Co.	Panama
R. M. Brauner	Pera
Phosphate Co. of En- gland	Phosphoria
G. A. K. Stevens	"
Withlacoochee Bluff Phosphate Co.	St. Augustine
Wekiva Phosphate Co.	St. Cloud
J. S. Smith	St. Jacksonville
E. C. Gordon	Starr
Gulf Stream Phosphate Co.	Tallahassee
Calabash Phosphate Co.	Tampa
G. A. Hays	"
D. A. Jones	"
Pera Phosphate Co.	"
Sterling Phosphate Co.	"
Trenton Phosphate Co.	Trenton
Geo. T. King	Villa City
Lord & Peck	Winter Park
De Sade Phosphate Min- ing Co.	Zell

GEORGIA

COPPER

NAME	POSTOFFICE
Toole & Ranes	Villa Rica

GOLD

Franklin Gold Mine	Creighton
Stony Ridge Gold Mine	Sandersville
Magnader Gold Mines	Washington

IRON

Chattahoochee Iron Co.	Canton
Hematite Mining Co.	Cave Spring
Hematite Iron & Mining Co.	Cedartown
New England Co.	New England

MICA

J. W. Long	Clayton
E. M. Ledford	Pine Mountain
J. A. Sheppard	Social Circle

PHOSPHATE

Atlanta Phosphate & Mining Co.	Atlanta
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SALT

J. W. L. Maddox	Stockbridge
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SLATE

Georgia Slate Co.	Rockmart
Rockmart Slate Co.	"
Southern Slate Co.	"

SOAPSTONE

Atlanta Tale Mng. Co.	Atlanta
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STONE, GRANITE, MARBLE AND ONYX

Oglethorpe & Thibault Blue Granite Co.	Albion
Laddell & Johnson	Atlanta
12 Lloyd St.	"
J. E. Mendish	"
M. E. Mader	"
Robbins Bros.	"
Venable Bros.	"
Old Capital Bldg.	Columbus
Bude Coal Co.	Covington
Alexander Carter	Crawford
Wm. Doyle	Liberton
Smith & Wilson	Liberton
Emerson Land & Mining Co.	Emerson
Gamesville Marble Works	Gamesville
J. J. Norman	Graysville
H. H. Jones & Co.	Groff
J. O. Jolks	Hawkinsville
W. G. Emlyson	Itzehena
I. G. New	"
J. R. Hightower	Monticello

IDAHO

COAL BITUMINOUS

Idaho & Wyoming Coal Mining Co.	Idaho Falls
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COPPER

W. H. Bayley	McAnley
Cook & Hamilton	"
C. Desbail	"
Thos. Fitzgibbon	"
Thos. Faust	"
Wm. Faust	"

COLD AND SILVER

E. O. Adams	Ray Horse
J. J. McVey	"
M. S. Clayton Co.	"
Jas Cochran	"
E. L. Donnelly	"
Excelsior Mining Co.	"
Chas. Fetter	"
C. Thurst	"
Josiah Waters	"
C. B. McKinnon	"
N. M. Webb	"
New Britain & Gall	"
Reid & Clark	"
Bellevue King Mining Co.	Bellevue

NAME

Michigan Mining Co.	Bellevue
Queen of the Hills Mining Co.	"
Relief Mining Co.	Boise City
Bella Mining Co.	"
Idaho Improving & Developing Co.	"
Badger Mining Co.	Bonanza City
Black Mining Co.	"
Boomerang Mining Co.	"
Carolina Mining Co.	"
Gray Mount Mining Co.	"
Handed Treasure Mining Co.	"
Hope Mining Co.	"
Lucky Boy Mining Co.	"
Montezuma Mining Co.	"
Mount King Mining Co.	"
Idaho Oil Company	"
Pilot Mining Co.	"
Paro Mining Co.	"
Whale Mining Co.	"
Yankee Fork Mining Co.	"
Idaho Developing Co.	Bonners Ferry
Jeanette Mining Co.	"
Union Mining Co.	Barke
Columbia Mining Co.	Clarks Fork
End Cannon	Clayton
Wendy Clark	"
John Dale	"
Lon Eskane	"
Richard Fitzgibbon	"
P. Germain	"
Angus Gillis	"
Dick Hillman	"
Henry Kirk	"
Peter Kirk	"
Wm. Little	"
Jas. McCallough	"
Alex. McLeod	"
J. P. Marlat	"
Dan Osgood	"
J. Popworth	"
Mark Patterson	"
Jos. Sanders	"
Harry Smith	"
H. T. Terry	"
H. Whitehead	"
Andrew Wilson	"
James G. Jordan	De Lamar
Wm. Henderson	"
M. Jordan	"
Frank Levey	"
Ed Moss	"
Carl Neufell	"
James A. Park	"
Shave Rely	"
W. L. Schreier	"
Ed D. Stimpson	"
Willemer Bros.	"
Acme Co.	Fort Lemhi
Lemhi Mining & Milling Co.	"
"	"
McKallap Bros.	"
Phoenix Co.	"
McKinnon & Sharkey	"
Boulder Creek Mining Co.	Flax
Black Lead M. Co.	Gonzalez
H. J. Bundy	"
Peter Hagan	"
P. Jackson	"
J. Jacobson	"
J. J. Johnson	"
Chas. Sampson	"
J. E. Schults	"
Aspen Placer Mining Co.	Harvey
Idaho Falls Placer Mining Co.	"
Idaho Falls Placer Mining Co.	"
Idaho Mining Co.	Idaho City
Santa Mining & Milling Co.	"
"	"
Brown & Co.	Idaho Springs
W. D. Rush	Junction
Mike Carey	Ketchum
A. H. Hollander	"
Frank Phillips	"
Greenlaw & Ramsey	"
Philadelphina & Idaho Co.	"
Popham Bros.	"
A. A. Sawyer	"
Warro Spring M. Co.	"
Linoka Cons. Mining Co.	Idaho
Herz Cook	Idaho
Hess Conzall	"
C. De Grapp	"
Geo. Gardner	"
Wm. Gerhart	"
Henry Gerhart	"
T. H. Hirsch	"
N. S. Kellogg	"
Henry Lamb	"

NAME

Orrin Lamb	McAnley
Fletcher Neill	"
Geo. W. Owens	"
Sydney Parker	"
Major Powell	"
Fred Pritchard	"
W. H. Rambo	"
J. C. Rasberry	"
Joseph Rodgers	"
Jas. Rummel	"
R. J. Rutter	"
Wm. Sutherland	"
E. L. Vandervoort	"
J. W. West	"
Santa M. & M. Co.	Mullan
Polished Mining & Milling Co.	"
"	"
E. J. Clark	Mullan
Marlin Curran	"
James Davis	"
Wm. Davon	"
Gold Queen Co.	"
Groose Mining Co.	"
H. S. Harris	"
Santa Mining Co.	"
A. W. Steele	"
Van Lake Mining Co.	"
Barclay Mining Co.	Murray
Buckeye Mining Co.	"
Golden King Mining Co.	"
Ibi Mining Co.	"
Occident Mining Co.	"
Freestone Box Mining Co.	"
J. M. Bergend	Nampa
Cox & Wallerhouse	"
Frank Given	"
Tom Kallert & Co.	"
Martin & Neillman	"
Clapper Mining Co.	Neshoba
Avola Mining & Smelting Co.	"
Frederick Barker	Oakley
Jas. Cooper	"
John Fairchild	"
Jas. Hogan	"
Geo. Simpson	"
Blake Bros.	Osburn
Casson & Co.	"
H. M. Freeman	"
E. S. Jennings	"
Bios Kemp	"
Noble Mining Co.	"
S. A. W. Johnson	"
Thos. Richards	"
Benj. Butler	Pend d'Ondelle
W. P. Gering	"
Bennett & Carpenter	"
H. L. Jackson	"
A. Klockner	"
I. M. Peters	"
I. Phillips	"
E. S. Smith	"
J. W. L.	"
Josiah Williams	"
A. B. Wyle	"
Gold Hill Mining Co.	Paine
C. Anderson Co.	Panorville
H. Ashcroft	"
H. Conzall Co.	"
Grant & Cook Pith Co.	"
Jas. Groves	"
John Haley	"
H. W. Knight	"
John Latsch	"
M. Neils	"
Ranch Co.	"
Henry Reed	"
M. Rick Co.	"
W. O. Wyles	"
Bonham & Co.	Quartzburg
O. Carroll	"
D. C. Conzallman	"
F. C. Conzallman	"
M. Conzall	"
John DeKonsen	"
M. Dezell	"
William Hamilton	"
Anton Sevel	"
Patrick Sheridan	"
S. Smith	"
Hardy & Hobbins	Rocky Ridge
Shoshone Mining Co.	"
Wide West Gold Mining Co.	"
"	"
P. Salmon Placer M. Co.	Salt Lake City
E. J. Johnson & Co.	Salt Lake
Saw Tooth M. & M. Co.	"
Acme Mining Co.	"
Linoka Cons. Mining & Smelting Co.	Soda
Idaho Mining Co.	Silver Mountain
Cheyen Mining Co.	Wapiti
Custer Mining Co.	"

STONE, GRANITE, MARBLE AND ONYX.		STONE, GRANITE, MARBLE AND ONYX.	
NAME.	POST-OFFICE.	NAME.	POST-OFFICE.
A. A. Ogilvie.....	New Castle	Central Cooperative Coal	Springfield
J. P. Carlson.....	New Windsor	To	"
City Coal Co.....	Nanticoke	Capital Cooperative Coal	"
Chas. Drawner.....	Norris	John Smith.....	Steeleville
Flies, C. W. & Co.....	North Alton	M. Baldwin & Son	Stratford
J. Pierce & Co.....	"	F. B. Dawson	"
Consumers Coal Co.	O'Fallon	Marshall & Simpkins	"
Joseph Taylor.....	Oreola	C. A. Munger	"
Robert Clark.....	Opaheke	Nelson & Westerband	"
Owen Conley.....	Opaheke	Pleasant Hill Coal Co.	"
S. B. Burnett.....	Opaheke	River Bank Coal Co.	"
W. R. Servier.....	Opaheke	Salvester, Kimes	"
F. Engleke.....	Opaheke	D. C. Bankert	Summit
F. Lowery.....	Opaheke	Swan Creek	"
John W. Powell.....	Opaheke	John A. Van Winkle	"
D. E. Roberts.....	Opaheke	Joseph Wilson	"
Wheeler Bros.....	Opaheke	J. C. Pickering	Table Grove
James Green.....	Opaheke	C. J. Swanson	Tammaroa
W. H. Elliott.....	Opaheke	Barth & Sons	Tennessee
A. Leonard.....	Opaheke	F. C. Child	Tenniessee
M. H. Smith.....	Opaheke	Lucius Whalen	London
Bandholder Bros.....	Pekin	Dean Eass	London
Grant & Son.....	"	J. H. May	Turner Hill
Jesse Mack.....	"	C. J. Morgan	Aurora
Wm. Arnold.....	Peoria	H. C. Mackley	Albion
Jas. Averley.....	"	James E. Parks	Albion
Edward Brost.....	"	James Dusekova	Walden
O. Brost.....	"	Langston Lairs	"
Daniel Bruseal.....	"	Jonas Trone	"
Edwards Coal Co.	"	Perth Knight	"
John Glen.....	"	Wesley Coal Co.	Wesley
Mrs. John Lough.....	"	Kekape Coal Co.	Westville
Masterman & Kothe.....	"	Whitehall Coal & Lumber	Whitehall
A. W. Moffatt.....	"	Hos. Warr	"
Henry Mohr.....	"	H. M. Mott	Windsor
Mrs. C. Mohr.....	"	James H. Gibe	Wyom. Hg.
Newell Coal Co.	"	Richard Howarth	"
Peoria Coal & Mining Co.	"	John Eric	"
Robinson Bros.....	"	Robinson Bros.	"
Adam Sholl.....	"	St. Joseph & W. W. W.	"
Veckery Bros.....	"	Joseph Swanson	"
Reinhard Coal & Lumber	Peoria	Harlan Timmon	"
Portation Co.	"	George Wilson	"
Lattie, Muddy Coal & Lumber	"	Thomas Le...	Youngstown
Minning Co.	"		
Gabons & Oxford.....	Pittsburg		
A. F. Lister & Co.	"		
Levy, William.....	"		
Wm. Rice.....	"		
B. Burkhead.....	Phlipot		
John Gmeyer.....	Pleasant View		
Peoria Coal Co.	Pleasant View		
R. J. Hoy.....	Pleasant View		
Indians & Cavanagh.....	Pleasant View		
T. J. Roehr.....	Pleasant View		
W. C. & L. L. L.	Pleasant View		
Geo. Heathwood.....	Pleasant View		
Andie & Walton.....	Pleasant View		
Brookhouse & Felt.....	Pleasant View		
Bruks Porter.....	Pleasant View		
John Ziegler & Co.	Rapids City		
A. Lloyd & Son.....	Rapids City		
J. W. Moser.....	Rapids City		
Reinhardt Coal Co.	Rapids City		
Springfield Coal & Lumber	Rapids City		
Grant & Brown.....	Rapids City		
Walton & Ry.....	Rapids City		
Jas. Bell.....	Rapids City		
Reinhardt, Middleton.....	Rapids City		
John Gmeyer.....	Rapids City		
Sam. Isreal.....	Rapids City		
Paul Bird.....	Rapids City		
Thos. Co.....	Rapids City		
John Lattie.....	Rapids City		
J. V. White.....	Rapids City		
Rates & Reichel.....	Rapids City		
Rushby Coal Co.	Rapids City		
James P. H. H. H.	Rapids City		
Laybe Williams.....	Rapids City		
Wm. Plummer.....	Rapids City		
J. E. Middleton.....	Rapids City		
Walter & M. H. H.	Rapids City		
M. H. H. & Pendergast.....	Rapids City		
Platt Coal Co.	Rapids City		
A. J. Lane.....	Rapids City		
Reinhardt Coal Co.	Rapids City		
Peter Morgan.....	Rapids City		
Joseph Fleming.....	Rapids City		
Kelly & Co.	Rapids City		
C. J. K. & Co.	Rapids City		
Shannon Coal Co.	Rapids City		
Smiththorne Coal & Lumber	Rapids City		
John Smith.....	Rapids City		
Harris & McGee.....	Rapids City		
Philip Swartz.....	Rapids City		
Byrant Thompson.....	Rapids City		
Geo. Keay.....	Rapids City		
P. J. Lanning.....	Rapids City		
Carus Wright.....	Rapids City		
D. B. Boyd.....	Rapids City		
Geo. F. Leback.....	Rapids City		
R. H. R. Schenck.....	Rapids City		

NAME	POST-OFFICE
Lon Greenleaf	Prairie City
Chas. Cordis	Richland
Ropes Coal Co.	Ropes
Thos. Seavers	Rose Hill
S. G. Houser	Seymour
Chas. Ham	Shimbaugh
Wm. Bommer	Summerset
Ed. Lord	"
Lunsford & Bros.	"
D. C. Simmons	"
M. Kelly	Thornburg
Burnside & Condonough	Thornburg
Nathan Wiley	"
N. H. Nash	Walnut City
Chas. Blankenauert	What Cheer
John Bluff	"
John Smith & Rowley	"

COLD AND SILVER

Little-Tyeon Mining Co.	Burlington
Columbus Mining Co.	Cedar Rapids
Meritt Turas Mining Co.	Cherokee
Alfing Co.	"
Matron Gold Mining Co.	Council Bluffs
Minnesota Consolidated Mining Co.	Davenport
E. T. Goldthorp	Dubuque
Iowa Mining Company	El. Madison
Merchants Gold Mining Co.	Kewauk

CYPSUM

El. Dodge Gypsum & Stone Co.	El. Dodge
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IRON

Burlington Investment Co.	Burlington
Dubuque Ore Concentrating Co.	Dubuque

LEAD AND ZINC

John Bouskill	Center Grove
Charles Isborn	"
Raykin Bros.	"
James Lockers	"
Leitch & Uelrich	"
Theodore Meyer	"
George Mollart	"
Chas. Odenmatt	"
J. Loftis	Burlington
E. C. J. Wheeler	Cedar Rapids
W. H. Gantford	Center Grove
W. F. McGuire	Richfield

KANSAS**COAL BITUMINOUS**

Englevalde Coal Mining & Developing Co.	Englevalde
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COLD AND SILVER

Goodland Mining & Milling Co.	Goodland
Tower Lake Mining Co.	Kanhattan
Pittsburg Mexican Mining Co.	Pittsburg
Constock Mining Co.	Stockton

LEAD AND ZINC

Garden Lead & Zinc Co.	Empire City
Baldwin Mining & Milling Co.	Garden
Bliss Lead & Zinc Co.	"
Jenkins & Co.	"
Kansas Lead & Zinc Co.	"
P. C. Miliken	"
L. W. Moulder	"
John Murphy	"
Murphy & Murphy	"
Orvette & Co.	"
Page & Co.	"
P. N. Perry	"
Phillips & Co.	"
Mott Reed Paint & Mill Co.	"
R. Robinson	"
W. Smith	"
O. Sparkes	"
State Lane Mining Co.	"
Shree & Shime	"
J. C. Vest	"
J. C. Vetter	"
Windsor Mining Co.	"
Bogie Mtn Mining Co.	Kansas City

NAME	POST-OFFICE
New York Mining & Smelting Co.	Pittsburg
Idaho Mining Co.	Salina
Occidental Mining Co.	Wier City

SALT

Central Salt Works.	Hutcheson
Crystal Salt Works.	"
Diamond Salt Co.	"
New York Salt Co.	"
Pennsylvania Salt Co.	"
Queen City Salt Co.	"
Gverside Salt Co.	"
Western Salt Co.	"
Crystal Rock Salt Co.	Kanhattan
Crystal Salt & Mining Co.	"
Empire Salt Co.	"
Empire Salt Works.	"
Rock Island Salt Works.	"
Truesdell & Grimes Rock Salt Co.	"
A. J. Bowen	Lyons
Wellington Salt & Mining Co.	Wellington

STONE, GRANITE, MARBLE AND ONYX

N. E. Warren	Barker Hill
E. R. Grindle	Kanhattan
Reed's Gypsum & Cement Co.	Salina
Peerless Cement Plaster Co.	"

KENTUCKY**COAL BITUMINOUS**

Wm. Herrald	Anderson
M. Adams	Adams
J. R. Dean	"
L. L. Dooley	"
W. E. Doney	"
W. S. Gentry	"
L. L. Moore	"
John Riddle	"
John Spencer	"
Joshua Bellamy	Elmville
D. Allen	Aphrodelia
Hopkins Allen	"
A. Lepp	"
E. S. Diggins	"
James Dugan	"
Nancy Dugan	"
John Holbert	"
Geo. May	"
Jack May	"
Reph Osborn	"
Thomas Osborn	"
A. M. Conley	Armore
Wm. Norton	Andrews
Sam. Castrol	Armore
G. W. Johnson	"
Kentuck Iron & Coal Co.	Ashland
Maudie Spring Co.	"
Mrs. S. A. White	Backbone
Wm. Brains	"
James Booth	"
John C. Calk	"
F. H. Calk	"
John Creech	"
John Cullum	"
Ed. C. Smith	"
Wm. Marshall	"
Peter Mays	"
James Porter	"
W. L. Rivers	"
John Shors	"
Silas Stephenson	"
Wm. Stephenson	"
E. P. Wells	"
J. I. Wheeler	"
H. W. Baker	"
Ben Baker	"
W. D. Collins	"
Allen Hall	"
Ben Hall	"
Thos. Hall	"
Isaac Porter	"
Joe Younts	"
W. B. Ames	Barnett's Creek
Wm. Canfield	"
M. J. Canfield	"
W. L. Crowder	"
O. P. May	"
James M. Phelps	"
Dr. N. Picklesome	"
Wm. Picklesome	"
John T. Trimble	"
John M. Trimble	"
M. Witten	Barnett's Creek
Beattyville Coal Co.	Beattyville
Thos. J. Phillips	"
R. S. Elbert	"
A. J. Hamilton	"
Andrew Mitchell	"
Joseph S. Bennett	Bell
R. A. Bennett	"
S. A. Bennett	"
R. M. Davis	"
A. A. Hudson	"
John B. Rowan	"
Jos. T. Wallace	"
Ed. Clayton	Beech Grove
C. A. Wilson	"
James M. Black	Bee Spring
H. T. Reck	"
John E. Stone	Bingham
Mac Howard	"
P. M. Woodum	"
Henderson Boggs	Blaine
John H. Boggs	"
A. M. C. Burton	"
Wm. Edwards	"
H. C. Evans	"
H. H. Gambell	"
M. T. Gambell	"
C. A. Heilcock	"
John H. Holton	"
T. R. Moore	"
C. L. Osborn	"
S. I. Rose	"
S. M. Walter	"
J. Williams	"
Thos. Canard	Bloomington
E. Akers	Bonny's Camp
Frank Fields	"
Thos. Meek	"
Jas. Meek	"
Marion Peck	"
G. W. Peck	"
James Ward	Bonnyville
S. M. Brandenburgh	"
G. Campbell	"
E. C. Galt	"
Jack Elbert	"
A. B. Gilbert	"
Samuel Herndon	"
F. Hoag	"
James S. Isaac	"
Jefferson Jeff	"
A. B. McGuire	"
Stephen McPherson	"
Geo. Martin	"
Chas. H. Minter	"
W. A. Minter	"
H. H. Moore	"
P. E. Moore	"
Joseph Reynolds	"
A. C. Roland	"
Marion Roland	"
G. E. Rose	"
E. C. Rose	"
J. W. Scan	"
E. M. Sebastian	"
Rich Tilton	Brown's
T. H. Jones	"
W. H. Jones	"
Alex. Proffit	"
H. Woodard	"
Wm. Lowmnd	Brown
Oliver Bond	Buck Creek
W. B. Brandenburgh	"
Lafayette Buckley	"
Robert Price	"
A. J. Ambury	Burnsville
Wm. J. Ambury	"
And. A. Combs	"
Samuel Combs	"
Wm. H. Day	"
Samuel Francis	"
Geo. W. Johnson	"
L. M. Anderson	Burnsville
H. Hubbard	"
Jos. Hubbard	"
Wesley Hensley	"
Washington Lewis	"
Mrs. Emily Morgan	"
John Murray	"
James M. Brock	Bush's Store
J. R. Jones	"
S. A. Oakley	"
Senyle Patterson	"
J. C. Russell	"
John Vandewater	"
E. C. Williams	"
Andrew Moore	Burnsville
Frank Renze	Burnsville
Robert Renze	"
James Tilton	Cuba
James Carter	"
G. D. Castle	"
M. W. Ferguson	"

NAME	POSTOFFICE	NAME	POSTOFFICE	NAME	POSTOFFICE
J. Frisby	Canby	Wm. Deaton	"	Elias Moore	Eversale
John Hiney	"	Gross & Co	"	Green B. Reynolds	"
Lykins Dindley Co	"	C. Johnston	"	Leander Reynolds	"
Ed. Lykins	"	P. Johnston	"	J. C. Rose	"
Isaac W. Lykins	"	Sam'l. Johnson	"	Doc Rose	"
James M. Lykins	"	Levi McIntosh	"	Robert Rose	"
Leborn Lykins	"	Jesús Riley	"	Zachary Taylor	"
Wm. Lykins	"	Grayville Spicer	"	Sam Wilson	"
Herold Parnek	"	William Strong	"	T. A. Barker	Ezel
John Patrick	"	Elwood Turner	"	Heath Bartley	"
Irwin Prater	"	Barcy Turney	"	Howard Bartley	"
Euclid Prater	"	J. Clark	Crescent	Wm. Kusley	"
Samuel Rathall	"	J. B. Crane	"	Mark Monsey	"
Cambridge Sangers	"	Thomas Riddle	"	J. F. Peratt	"
J. C. Sebastian	"	J. Sublett	"	W. Peratt	"
Tredal Watson	"	R. P. Davis	"	Jos. F. Bailey	Falcon
James Wheeler	"	Milton G. Rush	"	L. F. Gambill	"
Jas. S. Carroll	Caneyville	Jas. Berry	Caneyville	E. Check	"
Mylos A. Taylor	"	James Callahan	"	Mrs. N. J. Collins	"
B. A. Bennett	Carpenter	Jonathan Callahan	"	L. Conley	"
C. Hahn	"	John Davidson	"	Rufus Kazee	"
Richard Mays	"	John Douglas	"	H. C. May	"
William Mays	"	Thomas Owsley	"	R. M. Prater	"
G. P. Rose	"	Harmon Payne	"	R. H. Evans	Fielden
John Rimon	"	Mrs. Polly Stanley	"	R. N. Green	"
Thomas Searls	"	H. M. Ryce	"	Daniel J. Grunth	"
Enoch Wilson	"	Henry Simmons	Darby	T. R. Hutchinson	"
N. Collins	Garrison	W. J. Benson	Davenport	A. J. Johnson	"
Grant Hoyemont	"	F. Flowers	"	E. Johnson	"
N. D. Sexton	"	Mint McKinney	"	E. Keator	"
Wm. Cooper	Caseyville	James Pendley	"	Wm. Marshall	"
Jas. M. Lamb	"	J. D. Sharer	"	Henry Sparks	"
W. J. Allen	Cant Creek	Thomas Viles	"	L. N. Sparks	"
Davidson	"	Bishop	Davison	Ezekiel Wells	"
James McChristia	"	J. B. Amys	Dryshoro	Joseph Wells	"
H. Wilboughby	"	Ed. Little	"	Daniel Wheeler	Flat Gap
G. W. Hopkins	Cartlettsburg	Hollis Nickell	"	E. Brown	Galen
Williamson Mining & Manufacturing Co	"	Harrison Wilson	"	John Brown	"
Jas. Bassions	Central City	Wm. Walker	Debard	Hy. Canfield	"
C. C. Mullendberg & Co	"	Peter Ross	DeKoven	Jed. Burchett	"
Richmond County Coal & Iron Co	"	A. M. Allen	Delaware	Hy. Canfield	"
Frank Whitehouse	"	Samuel Hicks	"	Wentrey Gambill	"
Perry Gray	Centretown	W. H. Johnson	"	James M. Green	"
C. Kimbley	"	W. T. J. Blair	Denver	Elizabeth Herrel	"
Elihu Miller	"	A. N. Evans	"	Brown L. Jones	"
R. N. Stroud	"	E. W. Fairchild	"	Geo. H. Kimbler	"
Thomas Williams	"	C. M. Patrick	"	H. B. Lifford	"
Thomas Rice	Chambers	L. C. Patrick	"	Dr. F. M. Picklesimer	"
Daniel Alkman	Chavies	A. J. Rice	"	Philp Picklesimer	"
May Berry	"	C. C. Rice	"	G. W. Rice	"
Daniel Davidson	"	B. F. Spradlin	"	Thomas Rice	"
E. Davidson	"	T. W. Carroll	Duckey's Mills	James D. Stambaugh	"
John Davidson	"	Miles Potts	"	Samuel Turner	"
A. Johnson	"	Hy. Bolling	Dixon	Taylor Webb	"
Hos. Johnstone	"	M. Grayson	"	P. C. Williams	Gatewood
Daniel Moore	"	Thos. Marks	"	Christopher McDaniel	Gay's Creek
Ed. L. Napper	"	Edw. Chestnut	Dory	Jesse S. Rege	"
Samuel H. Steadham	"	Wesley M. Hensley	"	John M. York	"
Wm. Dillbeck	Clay	Gas. Lincoford	"	Oscar Faller	Gillmore
Wm. D. Newcom	"	Samuel R. Green	Emles	John Gills	"
Jas. Thompson	"	J. S. Lewis	"	Jos. L. Wilson	"
E. G. Alford	"	J. M. Roark	"	Wm. Dixon	Gundt
C. C. Tarnier	"	Patrick Stovall	"	John Harper	"
Met. Amick	Cool Run	Thomas Summe's	"	J. B. Kelley	"
Silas Elymager	"	Wm. F. Underwood	"	James McCarland	"
A. J. Harris	"	Uran Lutzer	"	Fred Mawk	"
Jas. Honaker	"	Joseph Davis	Earlington	H. J. Mawk	"
R. E. Harris	"	Robinson & Son	"	Julia Sparks	"
A. E. Rathall	"	W. & Jas. Collins	East Point	Jack Huddleson	Gosholt
M. C. Reynolds	"	Samuel Order	"	D. Conley	Goodline
Thomas E. Reynolds	"	L. Goble	"	Geo. A. Durgas	"
I. J. Reynolds	"	W. A. Green	"	Wm. Durgas	"
D. C. Steele	"	Johns. Kellen	"	Ben Hale	"
Wm. Steele	"	H. J. Ouxen	"	Jackson Hille	"
W. A. Steele	"	John Richmond	"	Harri Johnson	"
M. O. Stone	"	Jos. Wells	"	R. B. Porter	"
James H. Stump	"	C. C. Fyfe	Ell Fork	Samuel Prater	"
Thomas Wagner	"	Chas. G. Christian	Ellton	Bryson Shepherd	"
Josh Weddington	"	Wright Emley	Evarts	Jack Shepherd	"
R. E. Weddington	"	John Eallier	"	Allen Shour	"
B. F. Ambrose	Conkling	J. H. Creech	"	Morgan Stump	"
H. Combs	"	Wm. Dixon	"	Byrd Stump	Grassy Creek
H. Crick	"	John C. Farley	"	James Creel	"
W. E. Ledford	"	John W. Gifford	"	Harri Greer	"
Town's Fairshille	Comptersville	Wright Kelley II	"	James Greer	"
Jas. Martin	"	Woodward King II	"	Sam'l. Haven	"
G. W. Miller	"	W. P. King	"	Frank Payton	"
Geo. C. Steele	Cookin	Camp Madden	"	James Roe	"
Abner L. Lewis	Croch	J. H. Maderton	"	R. C. Lewis & Bro	Grayson
C. J. Lewis	"	N. J. Napper	"	Little Sandy Coal & Sand Co	"
H. C. Lewis	"	Calvin Rice	"	"	"
Jonathan Lewis	"	James Short	"	Henry Mohler	Green Mount
J. F. Lewis	"	Leonard Smith	"	Bradley Bros	Greenville
J. J. Lewis	"	Harri Turner	"	Wm. H. Gibbs	"
C. F. C. Nolen	"	James Turner	"	John T. Reynolds	"
David Amberson	Cartlettsville	John N. Turner	"	Thos. Devey	Gregory
Leander Bostling	"	J. W. Walker	Eversale	Jerry Massey	"
Flislar Clay	"	A. J. Combs	"	S. C. Allen	Gypsy
R. Combs	"	Laffon Combs	"	Simon Allen	"
Thos. Deaton	"	John Eversale	"	Wm. Allen	"
		Larkin Gibson	"	D. Brown	"
				Brown Carpenter	"

NAME	POSTOFFICE	NAME	POSTOFFICE	NAME	POSTOFFICE
Sam'l. Carpenter	Gypsy	W. A. Dixon	Indian Bottom	James H. Fawell	Laynesville
Geo. Green	"	Moses Iron	"	R. P. Robinson Jr	"
Geo. Howard	"	J. M. Whittaker	"	R. P. Robinson sr	"
John E. Howard	"	Castle Bros	Inez	J. J. Stratton	"
Joseph Johnson	"	Jackson & Co	"	Washington Stratton	"
James Owens	"	Lewis & Company	"	E. C. Blair	Leonard
Logan Silver	"	J. M. Ward	"	Francis Clark	"
John E. Shepherd	"	S. R. Searey	Island	James M. Clark	"
W. Shepherd	"	John Bremer	Island City	Jasper Holmes	"
Epoch Stone	"	Thos. H. Kidd	"	Hiram Hull	"
Abc Wiseman	"	Dean, McCallum	"	Milton Hull	"
Fredlon Wiseman	"	Wm. Morris	"	Wm. Hull	"
Morgan Wiseman	"	Billy Shepherd	"	John P. Kelley	"
Wiley Wiseman	"	A. V. Taylor	"	James McKnight	"
Wm. Stone	Habit	R. M. Barnes	Island Station	R. F. Mosby	"
A. J. Parlon	Hager	Anderson Fanning	Isonville	Henry Schlegels	"
J. E. Sauer	"	Colford Fraley	"	Chas. Short	"
D. S. Hale	Halesburg	James G. Olson	"	Hampton Short	"
L. B. Ashmore	Hawley Station	J. K. Gullum	"	Jacobs Stump	"
E. T. McKnight	"	J. M. Ison	"	John Bouchamp	Lewistown
Wm. Williams	"	Harry Lester	"	J. L. Greenhouse	"
E. W. Woodruff	"	A. V. Oliver	"	J. D. Lewis	"
Harriettson Ashley	Hanson	James Peters	"	J. C. Taylor	"
Azro Condit	"	Capt. Hendricks	Jackson	Thomas Priest	"
J. H. Masonup & Co.	"	J. Adams	Jacksonville	Wm. Richardson	"
E. Ellis	Harbin	Fanny Back	"	B. R. Hutchcraft	Lexington
Kelley Harris	"	James Back	"	Little Rock Coal & Land	"
J. W. Howard	"	Wm. Back	"	"	"
Green Jones	"	Hiram Blair	"	J. D. Bales	Lehighburg
J. D. Pennington	"	David Canfill	"	A. P. Campbell	"
Williams Coal Co.	Hartford	H. M. Canfill	"	H. George	"
Thos. Davidson	Havensville	John Canfill	"	W. R. Howard	"
Duncan Lawson & Co	"	Polley Canfill	"	Chas. May	"
Stephen Landrum	Havensville	Ben D. Drake	"	Archibald Kismet	"
John Reynolds	"	James D. Dixon	"	S. M. Thompson	Likewille
Joseph H. Anya	Hazel Green	J. M. Scott	Jew	W. C. Good	Line Creek
John Brewer	"	Alon Hense	Jonestown	John P. Dyer	"
Wm. Brewster	"	Captn. C. Howell	"	C. C. Whittaker	"
D. S. Caskey	"	Jim McDevitt	"	E. C. Whittaker	Laynesville
W. T. Caskey	"	John F. Smith	"	Wm. Jones	"
J. T. Day	"	H. V. McDevitt	Kings Creek	N. T. Naylor	"
John Daniel	"	H. T. Day	"	John Blanton	Lock
D. S. Gaudy	"	W. H. Day	"	Heinson W. M. F. Wilson	"
John Hampton	"	D. M. Leady	"	T. M. Lock	Louisport
J. Miles Little	"	Stephen Boaz	"	Isidore McKinnay	Louisport
John McQuinn	"	R. Jones	Kingsport	David Asher	London
Amos Nickell	"	C. N. Hudson	Knightsville	John Chastant	"
E. H. Phillips	"	E. L. Long	"	Emmett Chastant	"
David B. Rose	"	John McDaniel	"	Stephen Chastant	"
Jett Rose	"	Pres. Montgomery	"	C. P. Layson	Lot
John Rose sr	"	Van Station	"	James Layson	"
John Rose	"	Van Station	Krunkles	Demetri Perry	"
Charley Sample	"	James Laine	"	J. R. Rose	"
Jas. Stamper	"	W. C. Jones	"	T. M. Siler	"
Elizabeth Landrum	"	John & Geo. W. Rogers	"	T. P. Siler	"
S. M. Talcott	"	K. C. Jones	"	Milton Siler	"
Jas. W. McCarthy	Heldersville	John Jones	"	Perry Siler	"
Geo. Negley	"	John Shisler	"	H. C. Tye	"
Jas. H. Telfordson	"	Josh. S. Shier	"	Blodgett M. Tye	Lebanese, O.
P. Baly	Hebron	Thos. S. Shier	"	James Rogers	McHenry
J. C. Caldwell	"	Edw. S. Shier	"	Samuel Rogers	"
R. J. Lewis	"	Chas. Smith	Lakeville	T. S. Siler	"
Emilia Pennington	"	M. R. Siler	"	John Hill	"
Bridget Saylor	"	Isaac Collins	"	O. Hill	"
Calvin Saylor	"	Nathan T. Siler	"	Wm. Hill	"
Jonathan Saylor	"	Reed Spearhart	"	R. C. Mott	"
James Shisler	"	Robt. Hays	"	Lewis Salsbury	"
Alexander Thelton	"	A. Mott	"	John P. Salsbury	"
James J. Thelton	"	John R. Mott	"	Chas. Salsbury	"
Robert Thelton	"	Geo. Mott	"	Wm. Salsbury	"
J. A. Rowlett	Hendricks	W. J. Mott	"	T. C. Salsbury	"
Isaac Back	Hendricks	William Report	"	Morgan Salsbury	"
John W. Back	"	John Turner	"	Peter & Robert	Metairie
John M. Back	"	Thos. W. Salsbury	"	John Salsbury	"
Wm. Bisher	"	Wm. Barnes	Lafayette	Peter Salsbury	"
Wm. Reed	High Knob	J. S. Gullitt	Lafayette	J. P. Whit & Son	"
J. M. Bailey	Hendman	Lee T. Hays	"	W. H. Clark	McKen
W. W. Baker	"	J. H. Hays	"	J. N. Clark	"
Eltha Blair	"	Jas. B. Hays	"	W. S. Jackson	"
S. Boggs	"	John D. Hays	"	Scott Evans	"
Rachel Callhoun	"	Andy Hays	"	James Caldwell	"
E. P. Conley	"	Josh. Hays	"	W. S. Hays	"
P. M. Duke	"	Joseph P. Hays	"	Charles Roberts	"
Green Dyer	"	Link Morgan	"	Levis Salsbury	"
Joseph F. George	"	Atty. Meigs	Lafayette II	R. J. Jarvis	McNary
Wm. Galloway	"	H. W. Meigs	"	John W. Bagley	McWhorter
Hiram Miller	"	J. C. Meigs	"	Geo. W. Brown	"
Logan Risermet	"	James Meigs	"	J. C. Caldwell	"
Andrew Singleton	"	Morgan Clark	"	Wm. Garrett	"
John Slawey	"	Robert Clark	"	John P. Young sr	"
P. H. Fingers	"	J. C. Davidson	"	P. L. Young sr	"
John A. Arnold	Howe Branch	S. P. Davidson	"	Madisonville Co. Co.	McKen
Saml. Miller	Hart	Dr. S. M. Davidson	"	S. O'Neil	"
Hy. Lewis	Hyden	W. L. Green	"	Geo. W. Charters	McKen
John P. Lewis	"	Sam'l. Hill	"	Morris McCall	"
Josh. McQuinn	"	J. C. Howell	"	James Moore	"
Judge Mundy	"	Boudus Lavin	"	John P. Mundy	"
Erin Roebuck	"	Chas. Lavin	"	C. M. Ralphy	"
Jas. S. Back	Indian Bottom	John L. Lavin	"	Hy. Ralphy	McKen
Lewis Back	"	J. N. Lavin	"	Wilson Lewis	"
Wm. Back	"	Lundy M. Lavin	"	O. M. McQuinn	"
H. B. Branson	"	W. H. Lavin	"	J. T. McQuinn	"
A. J. Craso	"	S. G. Lavin	"	Geo. W. McQuinn	"

NAME	POSTOFFICE	NAME	POSTOFFICE	NAME	POSTOFFICE
Alton Hensley	Mallin's Creek	B. L. Davis	Paintsville	Charles Simpson	Ready
A. Benge	Manchester	Hy. L. Dixon	"	M. H. Ward	Red Fox
S. B. Canfield	"	E. Dixon	"	T. M. Breeding	"
D. Chadwell	"	James Elliott	"	John Hale	Relief
John Herd	"	Green Meek	"	A. J. Ferguson	"
Perry Jarvis	"	Paintsville Mining Co.	"	J. M. Ferguson	"
John Lucas	"	G. R. Preston	"	Richard Ferguson	"
Granville Philpot	"	Samuel S. Preston	"	W. R. Ferguson	"
John White	"	Thos. J. Preston	"	B. S. Hamilton	"
Judea R. P. White	"	W. W. Rule	"	D. H. Hamilton	"
Martha White	"	Ed. Stapleton	"	Elliott Hill	"
John Wright	Mapleville	James Stambaugh	"	J. W. Hill	"
Ed. Maples	Martha	Madison L. Sublett	"	W. E. Hill	"
J. J. Gambell	"	Andrew J. Wiley	"	Doctor Ison	"
L. C. Gambell	"	G. H. Witton	"	Hudson Keaton	"
H. W. Skaggs	Mutton	T. F. Witton	"	E. Polphury	"
Barnes & Hargrave	Manitou	A. T. James	Paintsville	G. W. Price	"
A. E. Holcomb	Manitou	James Casabier	Paintsville	David Smith sr	"
John L. Montgomery	"	H. Canfield	"	J. C. Todd	"
J. Ward, M. D.	"	Green River Coal & Min-	"	Samuel James	Riceville
A. P. Wilson	Marity	ing Co.	"	O. W. Atkins	Riddle
J. M. Caldwell	"	L. W. Zanth	"	Joseph Fyler	"
W. S. Davis	"	Pres. Smith	"	A. Ison	"
Geo. Fields	"	Wm. H. Smith	"	Wm. F. Mason	"
W. R. Fisher	"	Washington Travel	Paintsville	John Riddle	"
G. M. Fuller	"	Elisha Bezas	Partridge	Meredith Skaggs	"
H. H. McChambers	"	E. M. Brown	"	John Watson	Rochester
J. F. Baugh	Mershon's Roads	J. M. Brown	"	Ben Harper	"
A. Baker	Maple Park	G. W. Canfield	"	John Holman	"
James Baker	"	M. D. Canfield	"	Gran Hunt	"
Wm. Carpenter	"	J. E. Day	"	D. Greathouse	"
Tom Turner	"	J. H. P. Day	"	Kinamouth Bros	"
Jake Tussey	"	James Lyle	"	Thos. Miller	Rockhold
Bryson Mountain Coal	Middleburg	Hay Maggard	"	Wash. Hamlin	"
Mingo Mt. Coal & Coke	Middleboro	Wm. B. Bennett	Patterson Creek	W. A. King	"
Reliance Coal & Coke	"	Wiles E. Staudill	"	J. W. Perkins	"
"	"	L. R. Woods	"	J. E. Rollins	"
John Brewer	Mize	W. M. Beatty	Pigeon Roost	Perry Sharp	Rock House
Lander Cotsky	"	Luther Lewis	"	Jesse Bowen	"
E. Delack	"	W. M. Reid	"	John Bowen	"
Solomon Haney	"	C. T. Rocklands	Pikeville	Randolph Collins	Rosedale
S. W. Haynes	"	Col. John Dils	"	A. Blankenbuckler	"
Wm. Hensley	"	John M. Ferguson	"	S. Barberlin	"
W. E. Ingram	"	E. M. Ferrell	"	N. E. Pennington	Rousesau
Edwin Oldfield	"	John M. Fuller	"	Wm. S. Allen	"
John A. Oldfield	"	P. A. Hatchet	"	John W. Erick	"
Joseph Oldfield	"	R. H. Ratall	"	Louis Bark	"
Cyrus Perry	"	John Carter Scott	"	Wallace Baily	"
James Rose	"	John M. Sword	"	G. W. Clemens	"
Geo. Burnett	Monterello	Wm. Sword sr	"	Moses Clemens	"
Wm. Larr	"	H. C. Sowards	"	W. A. Hydin	"
Thos. Millsaps	Monroe's Creek	Richard Syak	"	Thomas Houston	"
J. R. Baldwin	"	Thomas Thompson	Pine Hill	Roulen Louely	"
S. R. Davidson	"	Pine Hill Coal Co.	Paintsville	B. H. Mettman	"
James Ohaft	Margantown	Daniel Howard	Pleasant	G. W. Miller	"
Moses Helm	"	Allen Blackburne	"	John Newton	"
George Thomas	"	R. Oeking	"	James Richards	"
J. H. Wade	"	Wm. Goble	"	James Robertson	"
Plesley Whittaker	"	J. J. McGee	Pleasant Ridge	John Fuchner	"
Ben Muxton	Mortons Gap	W. T. Howett	"	Henry Williams	Redwell
Chesley Williams	"	James Tharp	Pollyton	B. F. Day	"
J. B. Williams	"	Amos Bennett	"	T. N. Perry	Rimsby
A. J. Gibson	Moseleyville	Polley Pleasant	"	Mr. Bider	"
S. Wm. Owens	Month of Pond	J. L. Powes	"	P. F. Richardson	St. Charles
Floyd Williamson	Mulls	John Polley	"	D. D. Woodruff	Salt Creek
Gashole Hill	"	M. A. Rose	"	R. H. Brashers	"
Jessie Hill	"	John Hubbard	Pong	H. C. Pratt	Saltersville
M. Hill	"	James McElhine	"	Parish Atlett	"
A. J. Johnson	"	Wm. Mink	"	D. M. Atkinson	"
Humam Johnson	"	N. Neely	"	Ben Canfield	"
Josh. Rhodes	"	J. J. Norton	Poor Park	John R. Canfield	"
Wm. Slet	"	Charley Blair	"	Geo. B. Gardner	"
James Smith	Neha	Joseph B. Blair	"	Hy. May	"
E. Binkley	Nelson	Jas. H. Coldman	"	Jeff Prater	Sandy Hook
E. C. Toay	"	John C. Dixon	"	C. S. Adams	"
Stull & Chidress	Nortonville	Rolen Forsdale	"	W. H. Bowling	"
Ebez. Lottaker	Old Springs	Jim Jackson	"	L. C. Prechard	"
Ben F. Cantrell	Ophi	Jim McKnight	"	Wm. Wedington	Sassafus
J. M. Cantrell	"	John McKnight	"	Thos. Kelley	"
Jesse Callum	"	Joseph McKnight	"	Wm. Kelley	"
E. J. Hill	"	T. J. Bingham	Prestonsburg	James Stacey	"
Jasper Wright	Orlando	George Hatchet	"	Simon Stacey	"
T. Vinex	"	J. H. Hatchet	"	Jeremiah Smith p	"
S. Anglin	"	Wm. Hubbard	"	Manford Young	Saxton
B. Mullins	"	T. J. Leshe	"	Drew Barnes	"
A. Proctor	"	B. C. May	"	Perry Bryant	"
Harrison Reams	"	J. D. Mayo	"	J. A. Jones	"
Fred Robbs	"	T. S. Slet	"	E. Smith	"
A. R. Brockes	"	John W. Hunter	Prosperity	Joe Siler	"
R. C. Thomas	"	Alex. Phipps	"	John W. Hunter	Settee
H. Herr	"	Hy. S. Begley	"	Wm. Kelley	Sellers
M. P. Mattinly	"	W. F. Bowling	"	W. H. Kelley	Shad
Mise & Co.	"	Nelson Gray	"	Peter Gross	Shrewsbury
C. E. Nall	"	Mat Edwards	Providence	Edwards	Spr
J. H. Nall	"	Sherman Park	"	James Rensley	Skalesville
H. E. Conley	Paintsville	T. Brown	"		
Augustus Daniels	"				
Joe Daniels	"				

NAME	POSTOFFICE
S. A. Waite & Son,	Pigeon Cove
Cherryhill & Hitchcock	Quincy
Friedrick & Field,	"
Glencoe Granite Co.,	"
G. Johnson & Bro.,	"
Mckean & Patterson,	"
Swain Bros.	"
Lanesville Granite Co.,	Rockport
J. H. Merrill & Son,	Salem
J. Welch,	"
J. Moyle,	Sharon
Andrew Gilman,	Shelburne Falls
A. Sherman,	S. Dartmouth
Lewis Brown,	S. Peabody
C. W. & G. W. Davis,	"
Wright, Lyons & Co.,	Springfield
Madleysee, Marble Co.,	Stonham
W. Y. Woodbury,	Webster
Christall Bros.,	West Quincy
Miller & Luce,	"
J. B. Remialter,	"
788 Cleveland st.,	"
Rembert Bros.,	West Stockbridge
M. Freedy,	West Yarmouth
Capl. A. Crowell,	Wobesher
Evans & Co.,	"
Fenice Chemical & Color	"
Co.,	"
Norcross Bros.,	"
Brindley Co., Marble Co.,	"
Troy Granite Co.,	"

MICHIGAN

COAL BITUMINOUS

Columbia Coal Co.,	Columbia
Hon. W. C. Mayburg,	Detroit
714 Griswold st.,	"
Grand Ledge Coal Co.,	Grand Ledge
Star Coal & Timber Co.,	"
West Coal Mining Co.,	Jackson
Geo. Myers,	Lacoma
Black Diamond Coal	"
Mines,	Sandstone
Capl. Wm. W. Spaulding	South St. Marie

COPPER

Superior Mining Co.,	Albion
F. W. Hudson,	Detroit
22 Walker Block,	"
Eds. Rydell,	"
1 Fort Junction av.,	"
Garden City Copper Co.,	Engle River
Meadow Mining Co.,	"
Jas. Houghton,	Houghton
Huron Mining Co.,	"
Isle Royal Mining Co.,	"
Calumet & Hecla Mining	"
Co.,	Lake Linden
Huron Copper Co.,	Lake Superior
Pennsylvania Copper Co.,	"
Lafayette Mining Co.,	Ontonagon
James Metcalf,	"

COLD AND SILVER

Fresh Heap Mining Co.,	Detroit
Davies R. Dietze,	"
276 Larned W.,	"
Shuman Gold Mining &	"
Manufacturing Co.,	"
F. B. Wendell,	"

GRAPHITE

Detroit Graphite Manu-	Detroit
facturing Co.,	"
342 River st.,	"

GYPSUM

Noble & Co.,	Grand Rapids
Union Mills Plaster Co.,	"

IRON

Gibson & Mitchell,	Champion
Detroit Mining Co.,	Detroit
10 W. Howell st.,	"
Wm. J. Gray,	"
10 Moffatt Bldg.,	"
A. J. Bliss,	I. Saginaw
Nelis & Stone,	"
The Sheridan Mining Co.,	Lewistown
N. Sticht,	Greenville
Northern Land & Mining	"
Co.,	Hancock
Roth Mining Co.,	Iron Mountain

E. Douglas Iron Mining	Ironwood
Co.,	"
Barnum Iron Mining Co.,	Ishpeming
Cleveland Iron Mining Co.,	"
New York Iron Mining Co.,	"
Saginaw Iron & Mining	"
Co.,	"
Salisbury Iron Mining Co.,	"
J. Peters,	Marquette
Barraclat Iron Co.,	"
Davis Mining Co.,	"
Dexter Iron Mining Co.,	"
Pitts & L. A. Iron Man-	"
ufacturing Co.,	"
Sampson Iron Co.,	"
Waverly Mining Co.,	Menominee
Troster Iron Exploring Co.,	Metropolitan
Ground Iron Mining	"
Co.,	"
Metropolitan Mining Co.,	"
Sturgeon River Iron Min-	"
ing Co.,	"
Green Creek Iron Co.,	National Mine
The Platt Mining & Mfg.	"
Co.,	Negaunee
Full Iron Mining Co.,	Norway
Early Iron Mining Co.,	"
S. T. High,	"
E. A. Johnson,	"
Penn Iron Mining Co.,	"
J. Perkins & Sons,	"
John Sewell,	"
Lamarack Mining Co.,	Opechee
Ruth & Raphael,	Quinnsee
Riverside Iron Co.,	Repulse
Saginaw Iron Mining Co.,	Saginaw
William Walls,	Stoneville
Crown Point Mining Co.,	Wakefield
Pipe Option Mining Co.,	"

LEAD AND ZINC

Oscoda Cons. Mining Co.,	Opechee
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SALT

J. E. Potts Salt & Lumber	Bay City
Co.,	"
Butman & Rust,	Bay City
L. S. Ebel,	"
Polson & Arnold,	"
L. Hall,	"
C. T. Lewis,	"
McIntosh Bros. & Co.,	"
Miller & Lewis,	"
Wm. Peter,	"
Robinson Salt & Lumber	"
Co.,	"
E. A. Williams & Co.,	"
Brown & Ryan,	East Saginaw
I. O. & S. L. Eastman &	"
Co.,	"
Edson, Potter & Co.,	"
Goldhardt & Lasterbrook,	"
W. A. O'Donnell,	"
Whitney & Batchelor,	"
Whitely Electrical Co.,	"
Isoson Brine Supply Co.,	"
Ltd.,	East Lewis
Rentz Salt & Lumber Co.,	Marquette
State Lumber Co.,	"
J. O. Worsey,	Marquette
Molland Salt & Lumber	"
Co.,	"
H. M. Lund & Sons Man-	Oscoda
ufacturing Co.,	"
Oscoda Salt & Lumber	"
Co.,	"
R. O. Galyie,	Port Hope
F. L. Gault,	Saginaw
Mitchell & McLaughlin,	"
Saginaw Lumber & Salt	"
Co.,	"
W. F. Stevens,	"
Stevens & La Grange,	"
Warner & Eastman,	"
Wells Stone Co.,	"
West State Lumber Co.,	"
A. W. Wright Lumber	"
Co.,	"
Wythe Bros.,	"
Hine & Endersbach,	West Bay City

STONE, GRANITE, MARBLE AND ONYX

Albaster Plaster Co.,	Albaster
Barbott Stone Quarry,	"
Stone Co.,	Cassville
Detroit & Marquette	"
Granite Lumber Co.,	Detroit
A. A. Parker,	"
2 Champlain st.,	"
R. J. Sinclair,	"
25 Champlain st.,	"

H. B. Nease & Son,	East Saginaw
Alabaster Co.,	Grand Rapids
Grand River Quarries,	"
F. Gaultrey & Co.,	"
Joseph C. Ruge,	Houghton
Bentley Sewer Pipe Co.,	Jackson
Jackson Stone Co.,	"
Excelsior Red Stone Co.,	Lansing
Lake Superior Red Stone	"
Co.,	Marquette
Newport & Lake Super-	"
ior Brownstone Co.,	"
Wm. Patrick,	Midland
Goodall Bros. Stone Co.,	Muskegon
Keweenaw Red Stone Co.,	Newtownville
S. B. Bond,	Stony Point
T. Grouse,	Windsor
Wm. F. Atkinson,	Williamston

MINNESOTA

COAL BITUMINOUS

Freeborn Consolidated	Alden
Coal Mining Co.,	"
Gray Jacket Mining Co.,	Minneapolis
Lehigh Coal & Iron Co.,	St. Paul

COLD AND SILVER

Montana Presentation	Austin
Co.,	"
Minnesota Lake Mount-	Benson
ain G. & S. M. Co.,	"
Duluth & Nova Scotia	Duluth
Mining Co.,	"
Higgins Wheelabrator	"
McComb Mining Co.,	"
Minnesota Coal &	"
Rainy Lake Mining &	"
Improvement Co.,	"
Silver City Mining Co.,	"
Black Hawk Land & Min-	Glencoe
ing Co.,	"
Bon. H. Carson, Gold &	Granite Falls
Silver Mining Co.,	"
Minnesota Valley Gold	"
& Silver Mining Co.,	"
Jordan Mining Co.,	Jordan
Stillwater Mining Co.,	Minneapolis
United States Mining &	"
Mining Co.,	"
Vermillion Range Min-	"
ing Studies,	"
Washburn Mining &	"
Mining Co.,	"
Minnesota Mining Co.,	Montello
Snake River Mining Co.,	Redmond
Clancy Creek Mining Co.,	St. Paul
The Yellowstone Paper	"
Co.,	"
Emeryman's Mining Co.,	Stillwater
Min. Co. Pond Mining &	"
Lumbering Co.,	"
Avantech Mining Co.,	Verdula
Hornb. Gold & Silver Min-	"
ing Co.,	Wadena
Wabasha Block & Hud-	"
son Mining Co.,	"
Verdula Consolidated	Winona
Mining Co.,	"

IRON

Hamilton Iron Co.,	Bawline
Albion Iron Co.,	Duluth
Albion Iron Co.,	"
Boston Iron Co.,	"
Bradley Iron Co.,	"
Canaan Iron Co.,	"
Carnegie Mining Co.,	"
Cleveland Iron Co.,	"
Cuba Mining Co.,	"
Columbia Iron Co.,	"
Constock L. Mining Co.,	"
Consolidated Vermilion	"
Iron & Lumber Co.,	"
Consolidated Iron Co.,	"
Detroit Iron Co.,	"
Douglas Iron Mining Co.,	"
Duluth Iron Mining Co.,	"
Duluth Iron Mining &	"
Developing Co.,	"
Dunth Mining Invest-	"
ment Co.,	"
The Elk Iron Mining Co.,	"
Emura Land & Lumber	"
Germania Mining Co.,	"
Great Western Mining Co.,	"
Great Flint Lake Iron Co.,	"
Harcum, Mason, T. &	"
Land Co.,	"

NAME	POSTOFFICE	NAME	POSTOFFICE	NAME	POSTOFFICE
Barton Mining Co.	Dubuath	Dakota & Minnesota		Geo. W. Day	Ladellia
The International Development Co.	"	Lavaca Granite Co.	Jasper	James D. Montague	Lamar
Iron King Mining Co.	"	F. Meyerding	Morgan	Thos. Gregory & Sons	Lexington
Fronton Steel Co.	"	Carlson Bros. & Co.	St. Cloud	Lafayette Coal Co.	"
Kanawha Iron Co.	"	Northern Granite Co.	"	Andrew O'Malley	"
Lackawanna Iron Co.	"	J. B. Robinson	"	W. D. Rankin & Co.	"
Lancaster Iron Co.	"	Portland Stone Co.	St. Paul	P. G. Boulay & Co.	Liberal
Matheson Iron & Mining Co.	"	St. Paul Granite Co.	"	C. J. Cameron	"
Merritt Neck Mining Co.	"	T. P. Wilson	"	Bavery Bros.	"
Mesaba Central Land & Exp. Co.	"	Cameron & Co.	Sank Rapids	Philip Foulk	"
Mountain Iron Co.	"			H. C. Hatfield	"
Mountain Range Iron Co.	"			Lavery Bros.	"
New England Iron Co.	"			John Perkins	"
New York Iron Co.	"			John G. Wilson	"
Northern Light Iron Co.	"			Central Coal Co.	Litchfield
1715 Piedmont Bldg.	"			Iowa & Missouri Coal & Mining Co.	Livingstone
North Superior Iron Mining Co.	"			John Chum	Lowry City
Ober Mining Co.	"			Geo. Bachelder	Marion
Poca Iron Co.	"			Macon Coal Co.	"
Rockwell Iron Co.	"			T. E. Wardell	"
Shoemaker Commerce	"			M. Clark	Marquette
St. Pittman Iron Co.	"			Wilburn Coal Co.	Marshall
Security Iron Co.	"			H. C. Morgan	Minden Mines
Sullivan Iron Co.	"			S. F. Pike	"
Twin City Iron Co.	"			South Western Coal Co.	"
Union Iron Mining Co.	"			I. B. Williams	Abbeville
Virginia Iron Co.	"			Joseph Murley	Montserrat
Vermillion & Grand Marais Iron Co.	"			Murley, Fitch & Harder	"
Vermillion Range Iron Co.	"			A. H. Franks	Moundville
"	"			J. F. Gill	"
"	"			W. D. Robinson	"
"	"			Linn & Co.	Nevada
"	"			John McKendall	Norborne
"	"			Wm. Serayons	"
"	"			H. E. Noble	North
"	"			F. M. Butler	Ossola
"	"			M. H. Lucas	Padro
"	"			C. G. Waite	Pittsburg
"	"			Bonham Turnpike Co.	Quatman
"	"			J. M. Wise Coal Co.	Red Hill
"	"			Enterprise Coal Co.	Remek
"	"			Carbon Center Coal Mining Co.	Rich Hill
"	"			S. W. Hopkins	"
"	"			Wm. F. Hudson	"
"	"			McComb Bros. & Co.	"
"	"			M. K. Martin	"
"	"			J. Spencer	"
"	"			Sullivan & Cheney	"
"	"			Frank Williams	"
"	"			Woodson & Woodson	"
"	"			Joseph Pickens	Richmond
"	"			Albion Coal & Mining Co.	St. Louis
"	"			Kansas & Texas Coal Co.	"
"	"			Madison Coal Co.	"
"	"			Osage Coal & Mining Co.	"
"	"			" of Missouri	"
"	"			S. B. Cohen	Sedalia
"	"			Jas. W. Gilmore	Sheldon
"	"			L. J. Rowe	"
"	"			W. N. Beard	Slater
"	"			John W. Tennill	"
"	"			J. Owen & Co.	Springfield
"	"			J. B. Novack	St. Paul
"	"			D. A. Mayer & Bros.	St. Louis
"	"			Jack Riley	Sylvania
"	"			Eli Zook	"
"	"			J. W. Johnson	Tadaville
"	"			R. B. Wilson	"
"	"			Grundy County Coal Co.	Trenton
"	"			G. E. DeGarmo	Unionville
"	"			Lane & Lane	"
"	"			Andran Manufacturing	"
"	"			& Coal Mining Co.	Vandalia
"	"			Samuel E. Dutton	Virginia
"	"			Owen Coal Co.	Walla
"	"			C. M. Barker	Walker
"	"			E. S. Downing	"
"	"			Milton Every	"
"	"			J. H. Highower	"
"	"			Samuel Potter	"
"	"			J. D. Wright	"
"	"			T. A. Vaden	"
"	"			John R. Evans	Warrensburg
"	"			L. J. Wells	"
"	"			P. H. Caton	Worland
"	"			Hunt Bros.	"
"	"			D. L. Robinson	"
"	"			Springer & Gardner	"

MISSOURI

ASPHALTUM

Gibson Asphaltum Co.	St. Louis	John Chum	Livingstone
North American Asphaltum Co.	"	Geo. Bachelder	Lowry City
"	"	Macon Coal Co.	Marion
"	"	T. E. Wardell	"
"	"	M. Clark	Marquette
"	"	Wilburn Coal Co.	Marshall
"	"	H. C. Morgan	Minden Mines
"	"	S. F. Pike	"

COAL BITUMINOUS

Maseott Coal Mining Co.	Amoret	South Western Coal Co.	"
J. A. Vance	"	I. B. Williams	Abbeville
R. Graham	Anthylla	Joseph Murley	Montserrat
Ed. Green	Bellamy	Murley, Fitch & Harder	"
John Lewis	Belmont	A. H. Franks	Moundville
Thomas J. Stanton	Bittinger	J. F. Gill	"
W. C. Barton	Bronaugh	W. D. Robinson	"
L. H. Sages	"	Linn & Co.	Nevada
Peter Smith	"	John McKendall	Norborne
Clark Coal Co.	Brookfield	Wm. Serayons	"
J. W. Morris	"	H. E. Noble	North
Black Diamond Coal Co.	Brownington	F. M. Butler	Ossola
H. H. Stephens	"	M. H. Lucas	Padro
John Thompson & Co.	"	C. G. Waite	Pittsburg
Walter Jones	Brown's Station	Bonham Turnpike Co.	Quatman
J. M. Cooley	Caro	J. M. Wise Coal Co.	Red Hill
Wm. O'Bryan & Co.	Carbon Centre	Enterprise Coal Co.	Remek
G. S. Ross	"	Carbon Center Coal Mining Co.	Rich Hill
Rehder & Edwards	Centralia	S. W. Hopkins	"
W. A. Cox	Chillicothe	Wm. F. Hudson	"
E. F. Monday	Clinton	McComb Bros. & Co.	"
T. S. Gordon	Columbia	M. K. Martin	"
Geo. Lowery	Concordia	J. Spencer	"
Robert Krampf	Deepwater	Sullivan & Cheney	"
H. B. Hobbs	"	Frank Williams	"
Hobbs & White	"	Woodson & Woodson	"
Kay Coal Co.	"	Joseph Pickens	Richmond
John Park	Dunkburg	Albion Coal & Mining Co.	St. Louis
J. S. Serany	"	Kansas & Texas Coal Co.	"
G. W. Strickland	"	Madison Coal Co.	"
F. M. Elston & Co.	Elston	Osage Coal & Mining Co.	"
Albright Bros.	Foster	" of Missouri	"
Hy. Ertmann	"	S. B. Cohen	Sedalia
J. E. McPeak	"	Jas. W. Gilmore	Sheldon
W. H. Mace	"	L. J. Rowe	"
S. M. Talbot	"	W. N. Beard	Slater
R. L. Bishop & Co.	Fulton	John W. Tennill	"
R. Eimers	"	J. Owen & Co.	Springfield
Slater & Co.	Georgetown	J. B. Novack	St. Paul
Warner Griswold	Guthrie	D. A. Mayer & Bros.	St. Louis
Robert Osborn	Harden	Jack Riley	Sylvania
J. B. Short	Harrisburg	Eli Zook	"
A. A. Stidham	"	J. W. Johnson	Tadaville
Geo. Bain & Co.	Higbee	R. B. Wilson	"
Bongaza Coal Co.	Higdonville	Grundy County Coal Co.	Trenton
Jackson & Taggart	"	G. E. DeGarmo	Unionville
E. B. Powell	"	Lane & Lane	"
Rocky Branch Coal Co.	"	Andran Manufacturing	"
John W. Tate	"	& Coal Mining Co.	Vandalia
Farrar & Armstrong	Hime	Samuel E. Dutton	Virginia
Bon. Funk	"	Owen Coal Co.	Walla
C. S. Wood	"	C. M. Barker	Walker
Eureka Coal Mining Co.	Huntsville	E. S. Downing	"
Huntsville Coal & Mining Co.	"	Milton Every	"
"	"	J. H. Highower	"
"	"	Samuel Potter	"
"	"	J. D. Wright	"
"	"	T. A. Vaden	"
"	"	John R. Evans	Warrensburg
"	"	L. J. Wells	"
"	"	P. H. Caton	Worland
"	"	Hunt Bros.	"
"	"	D. L. Robinson	"
"	"	Springer & Gardner	"

LEAD AND ZINC

Lead & Zinc Co.	Wabasha
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STONE GRANITE, MARBLE AND ONYX

Flag River Brown Stone Co.	Dubuath	Robert Coal Co.	Kansas City
Lake Superior Brown Stone Co.	"	Farrar's Coal Co.	"
Portage Red Sand Stone Co.	"	C. H. Hartman	"
Pittman Iron Co.	"	Bartman & Gilbert	"
A. M. Shearman	"	Missouri Coal and Construction Co.	"
Granite Falls Stone Co.	Granite Falls	Rocky Branch Coal Co.	"
Blue Stone Quarry Co.	Jasper	Risk Mining Co.	"
"	"	Southwest Coal & Mining Co.	"
"	"	P. W. Price	Keytesville

FIRE CLAY

Ark. Coal, Fire Clay & Manufacturing Co.	St. Louis
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COLD AND SILVER

Augusta Mining Co.	St. Louis
301 N. Eighth St.	"
Norfolk & London Mining & Milling Co.	"
501 Olive St.	"

NAME	POST OFFICE	NAME	POST OFFICE	NAME	POST OFFICE
Standing Elk Co.	Bullion	J. J. Campbell	Fort Halleck	C. M. Neuman	Manse
George Williamson	"	F. J. Cowles & Co.	"	Walter & Yount Bros.	"
Candelaria Milling	& Candelaria	Archie Dorsey	"	P. Alford	Midas
Water Works Co.	"	H. H. Harkness	"	Frank Bradley	"
Fred Corbitt	"	Victor Melckley	"	Jas. Coleman	"
John Corlett	"	E. J. Potter	"	E. Crane	"
Frank Gallagher	"	L. N. Sherwood Co.	"	Earl Croore	"
A. Garrard	"	A. W. Wilson	"	W. S. Gage & Co.	"
Eugene Gerick	"	H. Dracoll	Galena	M. Lemos	"
Julius Goldner	"	Mellander Bros.	"	F. McGary	"
Richard Greer	"	Peter Anderson	Gardenville	P. Morton	"
George Howard	"	George Brown	"	M. Morton	"
Charles Hill	"	H. C. Langberg	Genoa	J. Moraset	"
William Hill	"	Monarch Mining Co.	"	A. Phillips	"
S. L. McNaughton	"	Pay Day Mining Co.	"	W. E. Sheehan	"
John Nelson	"	A. D. Campbell	Geyser	E. Traub	"
Charles Nelson	"	Imperial Mining Co.	Gold Hill	G. W. Veatch	"
Princess Mining Co.	"	Kenrick Mining Co.	"	T. Bray	Mill City
Joe Ravefort	"	New York Mining Co.	"	J. E. Clarke	"
Joe Roberts	"	Silver Hill Mining Co.	"	Peter Nook	"
E. Sanchez	"	Thomas Cornell	Hamilton	J. Phillips	"
W. H. Thomas	"	Geo. C. Coulter	"	Chas. Wright	"
A. M. Ardery	Johnson City	J. T. Crabtree	"	Clasp Mining Co.	Montgomery
D. A. Bender	"	John Dieholder	"	Montgomery Mining Co.	"
Geo. F. Bryson Jr.	"	Austin Jacobson	"	Woodward Mining Co.	"
A. Cohn	"	Louis Lam	"	R. Ghyas	Moray
W. H. Corlier	"	C. A. Mathewson	"	J. T. Williams	"
D. Decker	"	Jerome B. Mathewson	"	Ford Estanover	Mountain City
Wm. Henry Doune	"	John Navea	"	H. T. Freudenthal	"
Geo. F. Ford	"	David Ross	"	Columbus Harris	"
F. Golden	"	Gust Simon	"	John Huber	"
S. L. Lee	"	James Sirr	"	J. G. Johnson	"
A. Livingston	"	Confidence Silver Min-	Hawthorne	John Johnson	"
M. A. Murphy	"	ing Co.	"	John W. McDonald	"
A. C. Pratt	"	Esmeraldo Mining Co.	"	J. R. McGinnis	"
Otto Shutz	"	Farmount Consolidated	"	Resurrection Mining Co.	"
P. E. Stevenson	"	Silver Mining Co.	"	Mary Nelson	"
H. M. Vermilion	"	S. A. Knapp	"	J. Maney & Co.	Oriental
J. Frazier	Cloverdale	Lapointa Consolidated	"	M. L. Willis	"
Mr. McNeil mine opera-	"	Gold Mining Co.	"	A. J. Millick	Oseola
tor	"	R. J. Mining Co.	"	Oseola Gravel Mining	"
Thomas Mitchell	"	Pauline Gold Mining Co.	"	Co.	Palsdale
Chas. Boone	Gold Creek	A. A. Waddell	"	B. Bianchi	"
Henry Peters	"	Valley Mining & Milling	"	George Buchanan	"
E. L. Harrington	Columbia	Co.	Hicks	D. Bobbs	"
C. G. Reid	"	John Cortles	Hiko	J. Flynn	"
A. P. Sinclair	"	Ferguson Bros.	"	J. Hadow	"
James Davis	Columbus	A. W. Greer	"	T. R. Jewell	"
James Morrison	"	J. B. Gilbert	"	Joe Lindsay	"
Mountain Queen Mining	"	J. C. Henderson	"	P. H. Bland	"
& Milling Co.	"	David Irwin	"	D. Smolterberg	"
W. W. Ryom	Dayton	John Patacher	"	Wm. Trembath	"
Carson River Dredging	"	Lee Rontzang	"	J. Walker	"
J. L. Denomy	"	Joseph Sharp	"	Brown & Scott	Palmetto
J. M. Douglass & Co.	"	Wm. H. Sharp	Hollbrook	Ferries & Gilbert	"
W. H. Ely	"	Willave & McDonald	"	Hill & Vodaumich	"
Lepina Brooks & Co.	"	A. C. Pratt & Co.	"	Claude Atchison	Panama
Wm. Mathison	"	O. L. West	"	Frank Atchison	"
L. P. Mack	"	J. Balchore	Humboldt	Lawson Atchison	"
Woodworth Mill Co.	"	L. A. Blakesley	"	Joseph Conway	"
Robt. McLaughlin	Deeth	J. Clark	"	A. E. Ellis	"
C. C. Throft	"	G. W. Mercham	"	A. C. Vogelman	"
Mattie Walters	"	Gage & Co.	Idaho	W. A. Liston	"
Wm. Anderson	Downeyville	C. & A. Adams	Lamelle	W. R. McFadden	"
W. T. Cox	"	Wm. Cant	"	D. A. Reeves	"
Bart C. Rose	"	Fordam & Co.	"	H. Rich	"
Henry Lechem	"	C. Hargrove	"	George Sydnus	"
John Myett	"	D. Ogilvie & Co.	"	L. D. Watson	"
John Myett	"	Wm. Toach	"	Bel. Kender & Bonhart	Paradise Valley
Gilbert Rayerott	"	R. E. Shargis & Co.	"	N. Toyer	"
Welsh Bros.	"	Pittsburg Cons. Gold	"	Elm Becker	Pearline
James Hendra	Don Glen	Mines	Lewis	Jacob Clone	"
S. C. Thomas	"	Pittsburg Gold Mining	"	Len Compton	"
John Riser	Oglet	Co.	"	Pat Emard	"
Great Western Mining Co.	Engleville	M. E. Record	"	P. A. McNeil	"
F. D. Lexington	"	Star Grove Mining Co.	"	Mart Power	"
Wm. Mazure	"	S. R. Thorp	"	E. P. Benham	Pine Grove
Walker & Trumble	"	Antone Balabock	Loda	Ex-Gov. H. G. Blasdel	"
C. A. Jamison	Ely	Jos. Cahaly	"	Ohio Moses	"
Ely Gold Mining & Mill-	"	Tom Carter	"	Sexton & Kennedy	"
ing Co.	"	Louis Tiedgen	"	Wheeler Mining Co.	"
Sol Hill	"	Upton Tracy	"	E. R. Willis	"
R. A. Roche	"	Silver Plume Cons. Sil-	"	Naumy Mining Co.	Pittsburg
A. R. Watson	"	ver Mining Co.	Lincoln	Maxville Mill & Mining	"
Ang. & Grits	Lipinto City	Chas. Bell	Lovelocks	Co.	"
H. R. Logan	"	P. K. Bond	"	Morning Star Mining Co.	"
Joe Moore	"	James Blum	Lining	Normie Consolidated Gold	"
E. W. Williams	"	S. B. Hager	"	Mining Co.	"
J. P. Woodbury	"	E. J. Handcock	"	A. H. Barnes	Beno
Bonham Mining Co.	Eureka	Elm Johnson	"	W. R. Chamberlain	"
Eureka Cons. Mining Co.	"	Kennedy & Co.	"	Jos. E. Jones	"
Eureka Mining Co.	"	A. Martens	"	Phoenix Mining & Mill-	"
Chas. Lane	"	Santa Fe Mining Co.	"	ing Co.	"
L. E. Phillips	"	L. T. Mullane	McDonnott	Louis Stevenson	"
Prospect Mtn Mining Co.	"	E. L. Rickard	"	Wm. Thompson	"
Richmond Cons. Min-	"	E. C. Clark	Mason Valley	Indie Wm. Webster	"
ing Co.	"	D. Emerson	"	Jos. Brauch	Reynolds
Richmond Cons. Min-	"	P. Gallagher	"	Gale S. M. Co.	"
ing Co.	"	J. O. Hattr	"	Geo. A. Bonelli	Royalville
Chas. Rodden	"	W. C. Ross	"	J. T. Hanson	"
S. J. Stevens	"	John Black	Manse	All. Bart	Ruby Hill
Williamston 2 Mining Co.	"	N. Clark	"	Diamond Mining Co.	"
J. D. Vile	Fort Halleck	Yount, Hamilton & White	"	Dunderberg Mining Co.	"

NAME	POSTOFFICE
Richmond Mining Co.	Ruby Hill
Boydington & Chase	Rye Patch
Frank Dorman	"
T. M. Howell	"
Humboldt Queen C. & S.	"
M. Co.	"
Antone Kaufman	"
Reese Gold & Silver M.	"
Co.	"
St. Lazarus Gold M. & S.	San Pedro
M. Co.	"
The Cleveland Quartz Mining Co.	Sierra City
Dayton Gold & Silver Mining Co.	Sierra City
Great Republic Silver & Gold Mining Co.	"
Haywood Gold & Silver Mining Co.	"
Independent Gold & Silver Mining Co.	"
Overland Gold & Silver Mining Co.	"
New England Gold & Silver Mining Co.	Skelton
Thos. Bradley	Soulsville
A. L. Sanborn	"
Angus & Bolle	Spring City
J. M. Boncher	"
John Brannen	"
Mal. Featherston	"
R. L. Ireland	"
J. E. Lucas	"
O. F. McAuley	"
E. A. Merrill	"
W. B. Todhunter	"
John & Chas. Phelan	Springmont
C. M. Spence	"
Wells Mining Co.	"
John French	Stoffel
John Grohn	"
Hugh Martin	"
Martin Kennedy	Sunnyside
E. Kiordan	"
Edward Robinson	"
Wheatley Bros. & Co.	"
Great Western Mining Co.	Sweetwater
A. S. Kipatruck	"
Mineral Chief M. & M. Co.	"
Mende & Castro Mining Co.	"
Edw. Moran	"
A. P. Sayre	"
Thos. C. Sharp	"
John Shewhan	"
Monten & Elberhart	Layton
New Elberhart Mining Co.	"
J. C. Avelan	"
Martin White	"
Wm. Arzyle	Peonoma
Chas. Christy	"
John Codely	"
Fred Hoppa	"
E. Munroe	"
Meyers Bros.	"
Wm. Riley	"
Stockdale Bros.	"
Belle Isle Mining Co.	Tuftsboro
Commonwealth M. Co.	"
Del Norte Mining Co.	"
Duane Mining Co.	"
Grand Prize Mining Co.	"
Naxapo Mining Co.	"
North Belle Isle M. Co.	"
North Commonwealth M. Co.	"
W. Bratcher	Twin River
Chicago Mining Co.	"
Chas. Conrade	"
John Condon	"
W. French-Jones	"
J. C. Curry	"
John Foster	"
David Goodwin	"
J. M. Gooding	"
John Gooding	"
Jacob Gooding	"
James Graham	"
John Holly	"
E. Holly	"
Park, Leonard	"
J. McLeod	"
A. E. McLeod	"
J. Morasia	"
A. Poluca	"
Frank Pomano	"
John Pomano	"
S. Remy	"
Wm. Rodgers	"
J. Tate	"
J. Timlin	"
Jacob Tsch	"

NAME	POSTOFFICE
S. Verdigo	Twin River
F. Waberton	"
James Willson	"
S. S. Fairbanks	Tylo
Joshua Lewis	"
Ma. Alta Mining Co.	"
Phil Maul	"
J. B. Page	"
S. J. Robinson	"
The Tylo Consolidated Mining Co.	"
Keyes Silver Mining Co.	Virginia City
Martin White Mining Co.	Ward
Ed. Harris	Washoe City
E. Robinson	White River
L. Sharp	"
F. Smith	"
Whitely Bros.	"
Beard & Mussey	White Rock
W. D. Fuller	"
Leach & Storff	"
Ridley Bros.	"
J. Chast & Bro.	Willow Creek
J. R. Randall	"
S. R. Rice	"
J. Roberts	"
J. Gentry	"
T. L. Hoppin	"
J. H. Jones	"
L. Jones	"
M. Leonard	"
K. R. McKenzie	"
R. McLeon	"
L. Morham	"
L. Pells	"
P. Roberts	"
P. P. Shapp	"
A. Showbury	"
J. Wilson	"

IRON

Big Creek Mining Co.	Austin
C. T. Deady	Bolton
Jackson & Co.	"
Ed. Stone	Bernice
Alphon Wiggins	"
Mamuel Avaris	Humboldt
John Sullivan	Loughlocks
J. Sutherland	"
John C. Tompton	Peavine

LEAD AND ZINC

James McMillen	Twelfth
Ross Cornell	Hamilton
Geo. C. Conifer	"
J. T. Crabtree	"
John Dehler	"
Austin Jacobson	"
Ed. J. McEllin	"
John Egan	"
C. A. Mathewson	"
Jerome E. Mathewson	"
Alex. Muir	"
John Naves	"
Geo. P. Paul	"
Guist Simon	"
David Ross	"
James Soti	"
Henry Steele	"
John Black	"
N. Clark	"
C. M. Newman	"
J. B. Wilson	"
George Jones	"

SALT

Nevada Salt & Brine Co.	Belly Hill
Williams Salt Marsh	Hartington
Thos. Van Dille & Co.	Central
L. & M. Salt Works	Reno
Sands Springs Salt Co.	St. Elmer

STONE, GRANITE, MARBLE AND ONYX

E. J. Breckenkamp	Emeka
J. McDonald	Montgomery
Mayne Mining Co.	"
Alexander Wise	Yonkers
Jas. Sey	"

IRON

Engles & Randol	Gratton
Lewis P. Brown	North Groton
W. B. Roney	"

MICA

NAME	POSTOFFICE
W. A. Rice	Bristol
G. H. Randall	Gratton Center
D. L. Strain	"
E. K. Moulton	Landsbach
Emeka Africa Mining Co.	Nashua
J. S. Kame	North Groton

STONE, GRANITE, MARBLE AND ONYX

F. J. Fuller	Amherst Station
F. R. French	Bolton
Bollins Bros.	Concord
W. H. Bond	"
J. S. Abbott	Dover
Wm. L. Elder	"
Hall & Emerson	"
George & Longmaid	"
D. C. & P. Chesley	Jurham
P. P. Price & Son	Farmington
R. L. Angier & Co.	Fittsfield
Donn Bros.	"
J. T. Fisher	"
S. M. Follansbee	"
T. L. Hayden & Co.	"
H. White	"
Peter Dora	Franklin
Huntington & Sullivan	Haverhill
S. C. Leazer	Haverhill
P. S. Badwell	Lebanon
P. H. Froese	"
Amoskang Mfg. Co.	Manchester
P. S. Badwell	"
M. Fitzgerald	"
Warren Harvey	"
Wm. G. Landrey	"
Waterman Smith	"
R. P. Stearns & Co.	"
Hogaw Valley	"
L. M. Butts	Milled
J. E. Loids	"
G. P. Parker	"
S. Perkins	"
E. State of J. Sawyer	"
LeMay & Petro	Nashua
F. Blashell	North Conway
White Mountain Granite	Ormay
S. Hasso	Rochester
W. H. Kingston & Son	Rumney
Fox Granite Co.	Troy
F. C. Fowley	West Concord
Carleton Granite Wks.	"
Crocker & Quinn	"
Gay Bros.	"
A. J. Holmes	"
John McGuire	"
H. L. Trussell & Son	"
Boston & Maine Railroad Co.	Wethersford

NEW JERSEY

ALUMINUM

United States Aluminum	Boniton
Metall Co.	"

COAL BITUMINOUS

Le Moyne Coal Co.	Camden
Southern Coal Co.	Jersey City

COPPER

Vanderhoff & Sawyer	Oregonising
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COLD AND SILVER

North Jersey Steel Co.	"
Providence Gold Mining Co.	"
Providence Gold Mining Co.	Phonoh
E. Vaidosta Mining Co.	Phonoh

IRON

Champion Steel Ore Co.	Batavia
Earl Lathrop	"
New Jersey Mining Co.	"
Thomas Iron Co.	"
Waspington Mining Co.	Peavine
Carthage Iron Co.	"
De Hart Mining Co.	"
Bethlehem Mining Co.	"
Franklin Iron Co.	Franklin
Bethlehem Mining Co.	Hazen
Beach Mining Co.	Hazen
Baker Mining Co.	Mines Hill
Ten Mile Mining Co.	Paterson
J. Apple	Paterson
Forge Hill Mining Co.	Phonoh

NEW HAMPSHIRE

IRON

Engles & Randol	Gratton
Lewis P. Brown	North Groton
W. B. Roney	"

NAME	POSTOFFICE	NAME	POSTOFFICE	NAME	POSTOFFICE
Estate of J. Cooper	Port Orford	Alison S. Copper Mining Co	Santa Rita	C. L. Larson	Hillsboro
Mt. Pleasant Mining Co	"	"	"	F. W. Parker	"
Port Orford Tunnel Co	"	Southwestern C. & I. Co.	"	G. O. Penault	"
Cooper & Hewitt	Emmaville			W. C. Purdie	"
W. A. Marsh	Schools Mills	GOLD AND SILVER			
Dickson Mining Co	Succasunna	Hindall Mining Co	Albion	A. M. Story	"
Crescent Oil & Mining Co	Trenton	Pittsburg Mining Co	"	J. M. Webster	"
Midvale Mining Co	Wagonway	Silver Salt Mining Co	Albuquerque	Scotto Anshures	Juan Tefoya
Hicksman & Sons	Weldon	W. F. Fimich	Alma	Juan Anshures	"
Hickshire Sons	Woodport	L. Lugin	"	Mamel Anshures	"
Albert Richards	"	Ohio N. Look	"	Galadina Barperias	"
LEAD AND ZINC.					
Sterling Zinc & Iron Co	Franklin Furnace	Uncle John Co	"	Molmo Beness-John	"
MINERAL PAINT					
W. K. Lyons	Johnsonington	Claude Mining & Milling Co	"	Estanep Bitoriano	"
PHOSPHATE					
Traymore Phosphate Rock Co	Camden	Bailey & McDonald	Carlsile	Dandero Borreyas	"
SLATE					
Jones & Williams	La Fayette	J. H. Keshler	"	Mamel Cassari	"
Owens & Rowland	"	Steeple Rock Mining Co	"	Cassia Eulapies	"
Staton & Jones	"	M. B. Brown	Cerrillos	Malma Eulapies	"
Mutton, Anthony & Co	Newton	San Pedro & Canon Del	"	Grigio Fridro	"
STONE, GRANITE, MARBLE AND ONYX					
M. R. Kimey	Andover	Agua Mining Co.	"	Justimano Garcia	"
York & Bittenbender	Belvidere	C. A. Whitel	Cerro	Sederno Garcia	"
J. S. Cregar	Calton	Danicon Archuleta	"	Silvestre Gavaldon	"
A. R. Flewterdell	"	Jose La Luz Altencio	"	Morsetino Huiteres	"
Henry Hoffman	"	Pedro A. Gomez	"	Malma Juan de Jesus	"
L. H. Peterson	Chester	Vicente Gomez	"	Mamel Samora Jose	"
J. P. Nevins	Dover	Black Knight Mining Co	Chiride	Mcquander Molina Jose	"
J. Vermer	"	J. S. Brown	"	Raca Liberato	"
D. J. Cook	Dralesville	Austin Crawford	"	Raca Pedro	"
J. H. Murphy	Flemington	Hughish & Dayisson	"	Clement Liseto	"
Will Clark	Gouverneur	H. A. McGowan	"	Buodero Marques	"
Bonaps Book Stone Co	Jersey City	W. Peterson	"	Estebano Marques	"
Penobscot Bay Granite Co	"	W. Thompson	"	Jesús Marques	"
Anisable Granite Works	Keeseville	A. O. Bailey	Columbus	Juan Rey Marques	"
O. C. Simpson	McAtee Valley	Columbus Marble & Mining Co	"	Benedicto Marques	"
Vernon Lane Co	"	J. P. Hyland	"	Scerndino Marques	"
C. A. Lightline	Milburn	Clark & Brown	Cooks	Rinaldo Mayo	"
B. M. & J. F. Shanley	Newark	John H. Frye	"	Arnado Molina	"
T. Nevins & Son	Orange	Hudgens & Elliott	"	Elias Molina	"
J. O. Romke	"	Onsted & Overton	"	Jerima Molina	"
Van Wagner & Dull	Piermont	Shultz Bros.	"	José Romdo Molina	"
H. S. Seely	Searsdale	Peter Spey	"	José Moya Pedro	"
Stewart Hartshorn	Short Hills	Teel & Poe Mining Co.	"	Molina Juan Ralace	"
Estate of Allen Hight	Stanhope	Stens Pass Mining & Refining Co	Denning	Andrueno Sanchez	"
S. J. Sackett	Tarrytown	Mormon Gold Mining Co	East Las Vegas	Ramon Peña	"
Gordon & Co	Thurso	J. W. Jones & Co.	Elisco	Mamel Torrey	"
NEW MEXICO					
COAL BITUMINOUS					
Gallop Coal Co	Albuquerque	Moses Kenton & Co.	"	Molina Vidal	"
Montezuma Mining Co	Albion	Berry & Sebald	Georgetown	The Graphic Mine	Kelly
San Pedro Coal & Coke Co	Carlsilage	J. H. Braun	"	The Juanita Mine	"
Cerrillos Coal & Iron Co	Cerrillos	Bragan & Potter	"	The Kelly Mine	"
Mr. Stephens	Edmington	Mona Star Co	"	Patterson Bros	"
M. A. Kinsler	Fort Stanton	F. L. Frazers	Golden	Mar Barber	Kingston
John Kether	"	John T. Kelly	"	W. Boyle	"
Aztec Coal Co	Gallop	J. B. Mayo	"	Caledonia Mining Co.	"
Crown Point Coal Co	"	Geo. Morrison	"	S. S. Call	"
Angel Coal Co	Monero	Santa Fe Copper Co.	"	Frank Campbell	"
A. A. Hunt	Raton	Frank White	"	Constock Mining Co.	"
Singrite Coal Co	"	Joe Billings	Gold Hill	Cumberland Mining Co.	"
J. J. Bica	Socorro	Boner & Son	"	J. Drummond	"
COPPER					
Broad & Craig	Chama	Clark, Sullivan & McKnight	"	Enterprise Mining Co	"
C. F. Summers & Bros	"	Copper Bros. Mining & Milling Co	"	Gray Eagle Mining Co	"
John Bailey	Kelley	D. R. Cunningham	"	Col. A. W. Harris	"
Benn. Bishop	"	Giddins Bros	"	Ed. J. Hill	"
James Blake	"	E. J. Jay	"	Ed. E. Hoos	"
L. S. Church	"	E. B. Jones	"	Illinois Mining Co	"
Cumby Bros	"	Henry Keck	"	Iron King M. & S. Co	"
J. M. Dandy	"	Alber & Zalt	"	A. Kinney	"
Kern Foley	"	H. C. Myers	"	D. Raff	"
Joe Garner	"	Jas. Patterson	"	Templar Mining Co	"
W. A. Graham	"	Major Pritchard	"	Virginia Mining Co	"
Mullen & Krewitz	"	Henry Schroeder	"	E. Walters	"
C. M. Over	"	Standard M. & M. Co	"	B. Wells	"
C. W. Rimer	"	James Sterling	"	Win. Cotton	Lake Valley
David Scott	"	Snyder Bros	"	C. A. Hammond	"
Peter Strozzi	"	E. E. & J. D. Toney	"	Tom Handel	"
Virginia Consolidated Mining Co	Raton	A. E. Walker	"	Ike Knight	"
San Pedro Copper Co.	San Pedro	Wm. Werney	"	Jas. McKenna	"
Santa Fe Copper Co.	"	White Tower M. & M. Co	"	A. D. Monger	Oray
		"	"	Map. Morgan	"
		"	"	J. H. Perkins	"
		"	"	S. A. Schlenberger	"
		"	"	Wm. S. Standish & Finch	"
		"	"	T. A. Tate	"
		"	"	F. Wedgwood	"
		"	"	J. E. Williams	"
		"	"	C. Wixson	"
		"	"	A. Wright	"
		"	"	George Wright	"
		"	"	J. E. Canera	Las Cruces
		"	"	Inter-Republic Gold & Silver M. & M. Co	"
		"	"	L. Lapoint	"
		"	"	Schroener Mining Co	"
		"	"	The Stephenson-Kennett	"
		"	"	Cons. Mining Co.	"
		"	"	Alpha Gold Mining Co	Las Vegas
		"	"	Free Conange Mining Co.	"
		"	"	Jacurilla Placer Mining Co	"
		"	"	Whitehead Mining Co	Littleton
		"	"	W. L. Tonkin	Lordsburg
		"	"	R. Foley	Magdalena
		"	"	Olave Rice	"
		"	"	Sanchez & R. B. Rata	Panama

NAME	POSTOFFICE
Beatrice Mining & Milling Co.	Pinon Altos
A. S. McDonald	"
Pacific Gold Mining Co.	"
H. H. Stanley	"
Watts & James	"
V. A. Gilbert	Quincy
Four Creeks Mining Co.	Raton
J. G. Fawcett	San Antonio
E. Montayo	"
W. E. Palmer	"
John H. Alton	"
Fred W. Keith	San Marcial
Simon Leysner	"
Gold Eagle Mining Co.	San Pedro
John H. Alton	Santa Fe
Cash Entry M. Co.	"
Pinon Mining Co.	"
Amre Mining Co.	Silver City
Bennett & Porter's Grand	"
Central Mine	"
Grant Mining & Milling Co.	"
Hempner Improvement Co.	"
Lone Mountain Mining Co.	"
Manhattan Gold Co.	"
Pacific Gold Mining Co.	"
The Silver Cell Mine	"
W. H. Rivers	Sucorro
Wm. De Groot	"
John H. Buxey	"
Wm. Glasco	"
John Lamson	"
L. J. McLaughlin	"
V. A. Magni	"
J. M. Robinson	"
J. S. Stullen	"
C. H. Spiering	"
L. R. Brandt	Stem's Pass
Hollins Bros. & Fred	"
Wald	"
Haywood & Williams	"
H. H. Bell	Los
Bonnett & Miller	"
L. W. Brown	"
Capt. John Kempf	"
Geo. B. Berry	Trux Probas
Nugel & Bonito Mining Co.	"
Anson Silver Mining Co.	White Oaks
Julius Willgenhausen	"

IRON

Briggs & Doyle	Santa Rita
V. F. Dawson	White Sulphur
J. B. Gilbert	"

LEAD AND ZINC

Antonio Quintana	Cerro
Sepulveda Liza	Quincy
F. S. Redding	"

MICA

Henry Cohard	San Antonio
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STONE, GRANITE, MARBLE AND ONYX

Webster Stone Co.	Albuquerque
San Pedro Quarry & Limestone Co.	Carthage
Harris Newton	San Antonio
Southern Pacific Land & Quarry Co.	"
Valley Onyx Co.	Santa Fe
J. E. Lacey	Socorro
G. H. Howards	"
Best & Schell	White Oaks
Howitt & Watson	"

NEW YORK

ALUMINUM

Olivet Aluminum Co.	Brooklyn
392 Bergen St.	"
Cowles Electric Smelting & Aluminum Co.	Brooklyn
Lowell & Son Manufacturing Co.	New York
155 Broadway	"

ASBESTOS

Garland Pulley Co.	Government
National Tannery Pulley Co.	"
"	"

COAL BITUMINOUS

NAME	POSTOFFICE
River View Coal & Mining Co.	Buffalo
" Co.	New York City
Dommon Lumber Co.	"
61 Broadway	"
Enterprise Co.	"
12 Broadway	"
Federal Valley Coal Co.	"
McKinney Coal & Coke Co.	"
72 Broadway	"
New York Underwriters	"
& Indemnity Co.	"
Stewart Bldg.	"
New York & W. Virginia	"
Coal & Iron Co.	"
31 Broadway	"
Standard Coal & Lumber Co.	"
"	"
14 and 31 Broadway	"
Whitely Coal & Copper Mining Co.	"
15 and 17 Wall St.	"
A. H. Davis	Syracuse

COPPER

Copper Queen Consolidated Mining Co.	New York City
61 John St.	"

COLD AND SILVER

Etha Mining Co.	New York City
36 Broadway	"
Rosecroft Mining Co.	"
11 Broadway	"
Capitan Mining Co.	Colorado
126 Broadway	"
Cardinal Bullion Co.	"
11 Wall St.	"
Deadwood Bullion Mining Co.	"
11 Broad St.	"
Enterprise Mining Co.	"
20 Wall St.	"
Good Point Mining Co.	"
111 Broadway	"
Hammond Mining Co.	"
Temple St.	"
Le Road Mining Co.	"
11 Broadway	"
S. Matherson	"
Monterey Silver Mining Co.	"
100 Times Bldg.	"
Oasis Mining Co. of Nevada	"
36 Broadway	"
Oxley Gold Mining Co.	"
11 Broadway	"
S. Dakota Mining Co.	"
31 Bond St.	"
Sterling Mining Co.	"
11 Wall St.	"
White Water Blasting Co.	"
38 William St.	"
German Mining & Manufacturing Co.	Rochester
Krohnthal Placer Mining Co.	"

GYPSUM

H. W. Ross	Academy
A. W. Edwards	Canfieldville
Lewis & Son	Canfieldville
G. Taylor	Phelps
A. D. Miller	Union Springs
Quincy Plaster Co.	Academy
Flour Conveyer	"

IRON

London Iron Co.	Amherst
California Iron & Ore Co.	Amherst
Kelly Mining Co.	Canfieldville
Prior Trounbley	Canfieldville
Franklin Iron Works	Canfieldville
Manhattan Mining Co.	New York
31 Broadway	"
Albion S. & Alloy Co.	"
115 Broadway	"
Herman Feld & Co.	"
Billings & Co. Process Co.	"
17 Broadway	"
Labette Co.	"
2 Wall St.	"
Camaguey Mining Co.	"
41 Wall St.	"
Confidence Mining Co.	"
70 Wall St.	"
Lanahan Coal & Iron Co.	"
11 Broadway	"

NAME	POSTOFFICE
Hutchinson-Jenkins Steel Co.	New York
3 Rockingham St.	"
K. Royal Mining Co.	"
The Mackay Mining Co.	"
Magneto Ore Milling Co.	"
Pulitzer Bldg.	"
New York & Puerto Rico Mining Co.	"
45 Broadway	"
Ozden Electric Power Co.	"
30 Wall St.	"
Tennessee Oil, Gas & Mineral Co.	"
17 Wall St.	"
Whitehead Mining Co.	"
11 S. Broadway	Port Henry
Manhattan Mining Co.	Sharon Station

LEAD AND ZINC

Hansen Zinc & Lead Mining Co. of New Jersey	New York
126 Broadway	"
National Lead Co.	"
Henns of Phillips Plant	"
205 Roman Title Co.	"
45 Broadway	"

MICA

Henry Rooms	Buffalo
Max Meyer	New York
45 Broad St.	"
Cassidy Bros. Manufacturing & Mineral Co.	"
36 Maiden Lane	"
J. O. Neil & Co.	"
17 John St.	"
Pacino Mining Co.	"
27 Beck Slip	"
New York State Mineral Mining Co.	Utica
J. S. & M. Peckham	"

MINERAL PAINT

Clinton Mineral Paint Co. of Clinton	"
Ross & Thompson Paint Co. of Ogdensburg	"
50 Homer & Co.	Oneonta
Ogdensburg Mineral Paint Co. of Rochester	"

NICKEL

National Nickel Mining Co.	New York City
36 Broadway	"

PHOSPHATE

Agnes Lott Co.	Newton
Colonizing Mfg. & Chemical Co. Ltd.	New York
120 E. 4th St.	"
Excelsior Phosphate Phosphate Co.	"
Food Chemical Phosphate Co.	"
80 Broadway	"
International Phosphate & Chemical Co.	Savoy
Albany Mineral Land Co.	Syracuse

SALT

Bliss Salt & Chemical Co.	Bliss
Cash Salt Co.	East
Excelsior Salt & Mining Co.	Canfieldville
Consolidated Salt & Mining Co.	New York
Consolidated Salt & Mining Co.	"
New York Salt Co.	"
70 Broadway	"
Tellus Salt Mining Co.	Rochester
W. F. De Bond	Savoy
F. A. Abbott	Syracuse
American Dairy Salt Co.	"
G. A. & A. Clark	"
Crude and Course Salt Co.	"
Proper & Porter	"
Foster Fly	"
Empire Course Salt Co.	"
91 Franklin & Co.	"
Excelsior Salt Co.	"
W. K. Williams	"
W. A. & K. K. Williams	"
D. Finch	"
A. McKeever	"
J. Maloney	"
A. Martin	"
A. E. Wilson	"
P. W. Peck	"
P. Peckham	"

NAME	POSTOFFICE
M. Prell	Syracuse
P. Rogers	"
Salina C. & E. Salt Co.	"
Salina C. & E. Co.	"
Salt Springs & Soda Salt Co.	"
M. & J. Salmon	"
D. H. Scanlon	"
Solvay Process Co.	"
L. Stevens & Co.	"
E. Tracy	"
Turks Island S. Co.	"
Union Course Salt Co.	"
R. Youngs	"
Bradley Salt Co.	Warsaw
Empire Dairy Salt Co.	"
Hawley Salt Co.	"
Standard Salt Co.	"
Warsaw Salt Co.	"
Murphy, Slack & Davis	Webb City

SLATE

Excelsior Slate Co.	Camden
Brookway & Hughes	Granville
Alex. Clayton	"
H. K. Kays & Co.	"
Warren Slate Co.	"
Mrs. G. Williams	"
R. R. Jones & Co.	Middle Granville
R. B. Pritchard	"
Bangor Central Slate Co.	New York
15 Burling slip	"
Columbia Slate Co.	"
202 Broadway	"
Fourthly Slate Co.	"
101 E. Seventeenth st.	"
White Oak Slate Co.	"
18 Burling slip	"
C. H. Pierce	Salem

STONE, GRANITE, MARBLE AND ONYX

J. S. Gately	Albany
Hewitt Bros.	Amsterdam
Manufacturers' Granite Co., Ltd.	Brooklyn
40 Court st.	"
Buffalo Stone Co.	Buffalo
J. Gese Jr.	"
157 LaRoy av.	"
Gragdon & Jennings	"
Foot of Main st.	"
Vermont Hill Stone Co.	"
Empire Marble Co.	Catskill
John A. Lee	"
Friedler & Co.	Clarksville
D. B. Broadman	Cotton Springs
Samuel Aker	Columbia
Reiley & Scanlon	"
C. & A. Stillwell	Collamer
A. D. Lyman	Elmira
Clark Snook	Lakeville
Snoddy & Krandner	Port Plam
Win. E. Weeks	Carthart
J. G. Barges	Goodyear
W. H. Freeman	Gowaymont
L. M. Gardner	"
F. H. Batte	"
J. H. McDonald	"
Northern New York Man-	"
ufacturing Co.	"
Henry Palmer	"
Samuel Peck	"
J. M. Sparks	"
J. Tracy	"
P. R. Whitney	"
W. G. Leburg	"
F. W. Jones	"
John Stapor	"
E. B. Alford	"
Unseble Granite Works	"
J. P. Davis	"
Win. Amador	"
Shifflet & Lockert	"
Udell Hill Stone Co.	"
W. H. Krom	"
Dani. Lawrence	"
Geo. Lawrence	"
P. Lockers	Liverpool
Mrs. C. B. Murray	"
Ariston Marble Co.	Lockwood
L. D. Shuman	Marcellus Falls
Les. Bohan	Kingsden
Harmon Amersforth	Middle Granville
D. J. Tyson	New Dorp
American Rose Garnet Co.	New York
2 W. Thirtieth st.	"
Rhod Edge Slate & Tile Co.	"
80 Broadway	"
Brown, McAlister & Co.	"
43 W. Fourteenth st.	"
Geo. Chase	"
107th and First av.	"

NAME	POSTOFFICE
Electro Silica Co.	New York
Gate City Stone & Filter Co.	"
24 Park row	"
Georgia & Florida In-	"
vestment Co.	"
250 Broadway	"
J. H. Hummel	"
153 Fulton st.	"
Palisades Trap Rock Co.	"
261 Broadway	"
Rensselaer Mining Co.	"
146 Broadway	"
C. E. Tanyter & Co.	"
229 Broadway	"
J. Roberts	Philadelphia
H. Rich & Bros.	Port Chester
L. W. Bond	"
E. Sumner	"
F. C. Lauer	Rochester
11 Pineapple st.	"
Rochester Medina Stone Co.	"
306 Wadler Bldg.	"
Kerr, Bro. & Co.	Rock Glen
John Leavely	Shelby Basin
The Oswegatchie Marble Co.	Syracuse

TIN

Judge Brindle	Binghamton
American Tin Co.	New York
53 Broadway	"

NORTH CAROLINA**COAL BITUMINOUS**

Greens Coal Mining Co.	Walnut Cove
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COPPER

A. W. Hendricks	Blue Wing
John H. Reed	"
Ellis & Logan	"
W. E. Russell	Chandlers
Cambridge Copper Min-	"
ing Co.	Jamestown
Deep River Mining Co.	"

CORUNDUM

Amer. Emery Wheel Co.	Webster
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COLD AND SILVER

Tyra Gold Co.	Ben Salem
W. W. Davis	Eldorado
J. H. Harris	"
Hoover Hill Gold Mining	"
Co.	Hoosier Hill
Hon. Joseph Morris	Marion
W. H. Roberts & Co.	"
John Stevens	"
Win. Carter	Nails
Nelson Russell	"
J. B. Lauer	Salisbury
Thomas Gold Mining Co.	Cartersburg
J. P. Harper	Troy

IRON

Alternathy & Porson	Bakersville
D. A. Bowman & Powell	"
Isaac McKinney & Bach-	"
man	"
J. L. Hyatt	Burnsville
L. H. Smith	"
J. W. Young	"
R. J. Hatcher	Elk Park
A. F. Brevard	Iron Station
W. A. Bailey	Mocksville
John L. Worthis	Mount Airy
J. C. Dodson & Sons	Pilot Mount

MICA

F. A. Hall	Ashville
Pennington & Co.	"
Jesse Jones	Barber
G. D. Bland	Barnesville
Louis McCarthy	Edin
Steve M. Pitman	Camden
Pepper Mining Co.	Danbury
W. J. Thomas	Douglas
D. A. Davis	E. LaPort
W. B. Childers	Esatoe
Isaac Cox	"
Birtton Grissom	"
E. S. Eldridge	Fitzgerald
J. C. Woods	Fidelity

NAME	POSTOFFICE
T. J. Gouge	Flinty Branch
W. G. Bulgin	Franklin
T. C. Cunningham	"
E. H. Franks	"
Dr. J. M. Lisle & Son	"
D. M. Glenn	Glenn
H. Hawley	Hayesville
F. Z. Meunier	"
C. G. Neuminger	Horse Cove
J. T. Moorehead	Leaksville
Win. Day	Lenoir
S. Lander	Lenoirville
Jaw. Bressley	Marville
J. G. Edge	"
T. H. Young	"
G. Grimshaw	Montvale
W. C. Norton	Pander
J. L. Smith	"
A. Blanton	Shelby
D. A. Elliott	South Toe
C. A. Caraway	"
S. J. Murphy	"
Geo. Robinson	"
M. Westfall	"
J. D. English	Spencer Pine
A. W. Sallins	"
Equitable Mtg. Co.	Sylva
A. J. Long	"
E. Burnett	Three Forks
W. P. Woods	Tuckasee
J. P. Fratz	Webster
Nathan Coward	"
Alfred Hall & Sons	West Mills
Wm. West	"
Thos. Grishaw	Whiteside Cove

PHOSPHATE

North Carolina Phos-	Castle Hayne
phate Co.	"
Rock Phosphate & Fertil-	"
izer Co.	Rocky Point

SLATE

Stanley Slate Quarry	New London
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SOAPSTONE

Notto Consolidated Mar-	"
ble, Iron & Tale Co.	Kinsey

STONE, GRANITE, MARBLE AND ONYX

Bessemer City Mining &	Bessemer City
Mtg. Co.	Beta
W. P. Mills	"
Grimm Brownstone &	Carthage
Imp. Co.	Chandlers Grove
T. Taylor	Charlotte
Johnston & Elliott	Cowans Ford
J. W. A. Payne	Drumville
L. A. Rods	"
J. M. Wilkinson	Gail
W. S. Russell	McAdamsville
C. Hope	"
Henry Thomas	Phat Spring
Phat Spring Mining Co.	New London
R. D. Ormand	Old Furnace
J. A. Torrence	"
J. A. Renzor	Rock
J. J. Basinger	"
David Beaver	"
F. B. Arendell	Salisbury
J. D. A. Fisher	"
Peaslee Granite & Con-	"
struction Co.	"
Pink Granite Co.	"
W. H. Benson	Troy
E. E. Wade	"
Wadesboro Brown Stone	Wadesboro
Co.	"
Wadesboro Granite Co.	Whittier
J. E. Thomas	"

NORTH DAKOTA**COAL BITUMINOUS**

Missouri Slope Coal Co.	Sims
Northwestern Coal Co.	"
Sims Coal Co.	"

OHIO**COAL BITUMINOUS**

J. H. Bart	Akron
Demmon Coal Co.	"
Excelsior Coal Co.	"
W. S. Hedger	"
J. S. Jereids	"

NAME	POSTOFFICE	NAME	POSTOFFICE	NAME	POSTOFFICE
H. E. Loomis	Akron	J. H. Earnshaw	Columbus	David Williams	Kitchon
T. E. McNeil	"	20 & 21 Board of Trade	"	Reminger & Rapp	Krumpholtz
J. F. Seiderling	"	Haydenville Mining &	"	Peter Zimmerman	Leontonia
M. Seiderling	"	Mfg. Co.	"	Zimmermann & Long-	"
Superior Mining Co.	"	Maynard Bros	"	necker	"
J. J. Waggoner	"	Ohio & Western Coal &	"	Oregon Coal & Naviga-	"
L. Allen	Algonquin	Iron Co.	"	tion Co.	Libby
Jos. W. Brack	"	Sterling Coal & Coke Co.	"	Wm. G. Halbert	Lick Run
Alliance Block Coal Co.	Alliance	John Conley	Coshocton	S. N. & W. G. McCullough	Linton
Wm. & Geo. Baltherselt	"	John L. Davis	"	W. Greenant	Lyondale
Wm. R. Elliott	"	Davis Bros	"	Gilman & Gold	McArthur
Aswaburg Mine	Aswaburg	J. H. Robinson	"	J. H. Pabner	"
Erie Coal Co.	Athens	J. C. Arsel	Creda	Enos Winters	"
Reading Coal & Coke	"	H. Thomas & Co.	Cuyahoga Falls	O. Neel & Tague	McLurey
"	"	Mrs. E. Morris	"	M. & P. Tague	"
Barclay & Co.	Auburn	Lacy Coal & Mining Co.	"	Meeks & Hall	Magadore
Northern Coal & Stone	"	Almworth & Luzzin	Dennison	Riley & Sogard	Malodon
Co.	"	Jesse Coal	Doersville	P. V. Ringherty & Co.	"
Wm. Davely	Bainock	Shuler & Turkey	"	Thorp & Shopp	"
E. Packer & Bro.	Barnesville	Huston Coal Co.	Diamond	Robert Applegarth	Martin's Ferry
R. H. Malden	"	Scott Coal Co.	"	Ry. Hellings	"
Francis Walton	"	Orrin Ballou	Dillon	Helling Bros	"
E. N. Rogers	Barton	East Hill Coal Co.	"	Central Coal Co.	Massillon
Glen Coal Co.	Bellvue	Wm. Collier	Daylesstown	Em Coal Co.	"
John Messgrove	"	Hy. C. Galthouse	"	Milport Coal Co.	"
Patrick Seidell	"	Joseph Leshet	East Lewiston	Union Coal Co.	"
Ralph Truison	Berolt	Saml. Bell	East Liverpool	West Massillon Coal Co.	"
Cooperative Coal Co.	Bertholz	Matthew E. Myers	"	Massillon Mining &	"
Yendon Creek Coal Co.	"	Chris. Hall & Son	East Palestine	Manufacturing Co.	Mamersburg
E. O. Cole	Big Run	John W. Smith	"	Thos. Sauer	Middleport
Federal Mining Co.	"	Stratton, Hinkle & Strat-	"	Emas D. Scott	"
Nathan Bayler	Bohlar	ton	Empire	Rowen Bros	Millysburg
East Massillon Coal Co.	Bowestown	Jerry Morrow	Emus	J. H. Harpster	"
Andrew Wilson	"	East Bethel	Flushing	Max Bros	"
Eldr Mill Co.	Bradeport	A. Connor	"	Edward Sharp	"
Burt & Conway	"	H. Fisher	"	C. F. Brothers	Manuel Point
Boston & Porter	"	C. W. Howell	"	Davis Coal Co.	"
Kochline Bros	"	John C. Howell	"	Radwin & Williams	Maner Ridge
A. Meisler	"	D. R. Humphries	"	Lawson Mining Co.	"
Pittsburg & Whoshing	"	Robt. Kirk	"	H. J. Hughes	"
Coal Co.	"	J. H. McLean & Co.	"	Wm. Hutchins & Co.	"
"	"	Carlin L. Steel	Fortshale	Jos. & Githlis	"
A. Gehrts	Brilliant	John White	"	D. H. Lewis	"
Spaulding Iron Co.	"	A. C. Cochran	Francesburg	N. Nicholas & Co.	"
Frank Ray	Buckled	Jas. McLean	"	Peacock Coal Co.	"
Nelson Branson	Bucks	R. F. McLean	"	Warner Coal Co.	"
Anderson Incude	"	Jacob Nathan	"	Watkins & Daniels	"
Burr Oak Coal Co.	Burr Oak	J. H. Morgan	Fredericksburg	Williams Coal & Iron Co.	"
Burt & Hoopman	Bysville	Wm. Coal	Gard	John H. Youngs	Minersville
Buckingham & Todd	Cambridge	Cambridge Coal Co.	"	Manisville Coal Co.	"
Cambridge Coal Co.	"	Morris Coal Co.	"	Thos. Parker & Bro.	"
Robbins & Corban	"	Tom Corbin Coal Co.	Glen Roy	Zell Salt Furnace Co.	"
Scott Coal & Salt Co.	"	Glenwood Coal Co.	Glenwood	Jos. ph. Decker	Minerton
Jas. A. Smith	"	Superior Coal Co.	Glenora	C. W. Hirschman	"
Harvey Gibbs	Canal Dover	Jos. Younger	Gold Beach	John T. Lawler	"
P. H. Lund	"	Condo Cooperative Coal	"	Stephenson & Keck	"
J. G. Newman	"	Golden	Golden	Stark & Decker	Monday
Port Iron & Coal Co.	"	Granville Furnace Co.	Granville	J. L. Rowe	Mt. Union
Osmond Salmon	"	Ry. Barries	Harden Springs	Mosses Coal Co.	Murray
Scott & Kral	"	James George	"	Wm. Barber	Nelsonville
T. Stockdale	"	A. Moschhead	"	Cutcher, Parker & Wd-	"
Wagler & Worthington	"	Jos. Hawes & Son	Hartney	son	"
Wm. Bros	"	D. C. Delaney	Hawkes	Jumpet Bros & Lamp	"
Hoover & Simmons	Canal Fulton	O. L. Hawkes	"	main	"
Coal Coal Co.	Canton	Henry Truck	Hopewell	Maple Hill Coal Co.	"
Domestic Coal Co.	"	J. W. Morrison	"	Nelsonville Coal & Coke	"
Henry Munnich	"	G. L. Porter	"	"	"
Sm Coal Co.	"	Joseph Porter	"	New Pittsburg Coal Co.	"
H. B. Mullin	Carrivick	Isaac Schars	"	Nathan Pickett	"
Auston & Faust	Carrington	C. N. Clingan	Hubbard	Wm. G. Brooks	"
F. P. Moody	"	S. C. Kemp	"	Jas. Wilson & Son	"
James Trapp	"	Perry Wolf & Co.	"	Woodard & Fether	"
Stone Bros	Cedar Run	Wallace Barnfield & Co.	Foundale	Shawnee & Troupent	"
J. B. Brown	Chapman	John A. Blackwell	Fronton	Coal Co.	"
James Chambers	"	Wm. W. Frimger	"	W. W. Morris	New Chesterstown
Carbondale Coal Co.	Chillicothe	Jos. Gellard	"	Darius Fuchy	New Lexington
Madena Coal Co.	"	Simmon Gravel & Son	"	Jac. son & Wargel	"
Guy Simpson & Co.	Churchill	John D. Johnson	"	Central Mining Co.	New Lisbon
Consolidated Coal Co.	Cincinnati	S. C. Kemp	"	Luther Beaver Creek Coal	"
David Barthelme	Cleveland	L. V. C. Lott & Nott	"	Co.	"
The Consumers Coal Co.	"	Thos. Miller	"	Ohio Cement Co.	"
Coshocton Coal Co.	"	N. V. & Ohio Iron &	"	Ohio Land & Coal Co.	"
Collings Grove Coal Co.	"	Steel Co.	"	Snitzog Gas & Steam	"
Pittsburg & Morris Coal	"	Richard Barthett	Jackson	Coal Co.	"
Co.	"	Buckeye Coal Co.	"	Snitzog Mining Co.	"
Manufacturer's Coal Co.	"	Centre Valley Coal Co.	"	Clayton Hall	New Miln
N. V. & Ohio Coal Co.	"	The Cincinnati Coal & Iron	"	Brook Hill Coal Co.	New Philadelphia
Ohio & Pittsburg Coal	"	Co.	"	North Broad Coal & Coke	"
Mining Co.	"	Franklin Coal Co.	"	Co.	North Bend
Oshorn Coal Co.	"	Louis Gibson	"	Philip Elshart	North Industry
Osaburg Mining Co.	"	Hard Coal Co.	"	E. R. Lippin	"
J. H. Souer	"	Kyle Coal Co.	"	Pike, Westley & Lake	"
Turner Coal Co.	"	Mark Landrum	"	Thos. Coal Co.	Norwalk
Tuscarawas Valley Coal	"	Andrew Law	"	Eluth Rice	Osnaburg
Co.	"	John Law	"	The Talcott Coal Co.	Palmira
Valley Coal Co.	"	Lewis & James	"	O. Hanes	Paris
Cowell & Posey	Coal Run	James Newport	"	W. A. Taylor	"
W. S. Koeper & Son	"	Tropic Iron Co.	"	Franklin Walker	"
Coalton Coal Co.	Coshocton	Willard Coal Co.	"	W. D. Fletcher	Pendleton
Holliday & Co.	Columbiana	Burtis Coal Co.	"	J. Earl Co.	Philos
W. E. Brooks & Son	Columbus	James W. Reed	"	Sander & Syle	"
Columbus Eastern Coal	"	Wm. T. Gallien	Kaliburg	Charley Oak Coal Co.	Pomeroy
Co.	"	Sherridan Coal Co.	Kitchon	Delona Mining Co.	"

NAME	POSTOFFICE	NAME	POSTOFFICE	NAME	POSTOFFICE
Mrs. Mary Davis	Pomeroy	Calumet Clay Co.	Calumet	E. H. France & Son	Bloomville
Durst & Hennessey	"	Crown Fire Clay Co.	Canal Dover	Kohler & Geiger	Bluffton
Frank Hess	"	Ancher Tile & Clay Co.	Canlon	Richter & Greenwald	Braunsburg
J. M. Strider	"	Champion Pottery Co.	"	Excelsior Sewer Pipe Co.	Calumet
Arthur Vorhies	"	Empire Fire Clay Co.	Empire	C. W. Bodey	Canal Dover
Ed. Williamson	"	Royal Fire Clay Co.	Malvern	K.J. Muller Stone Co.	Canlon
Kelly Coal & Coke Co.	Portland Station	Newman Creek Clay Co.	Massillon	L.J. Kenney	Cary
Samuel Tiedling	Porthattan	United States Fire Clay	"	Carpenter	Carroll
L. E. Ritchey	Radcliff	"	New Lisbon	R. Stanzel	Centerville
Adam Wyatt	"	Etina Fire Brick & Clay	"	J. S. Brinker	Chambersburg
A. P. Simons	Radcliff	"	Oak Hill	Chargin Stone Co.	Chargin Falls
Marvin Miller	Roscoe	"	Oak Hill Fire Brick & Clay Co.	Charles Salter	Chilo
New York Crescent Mm-	"	"	"	Christ Adair	Cincinnati
ing Co.	Rossville	Standard Pottery Co.	Salineville	Ashtman & Glasgow	"
Roseville Mining Co.	"	Forest City Fire Clay Co.	Toronto	Ridgely & Marsch	"
St. C. Butler	St. Clairsville	Ohio Valley Fire Clay Co.	"	John Boyle	"
Jas. Ashman	Salchu	Waynesburg Brick & Clay Co.	Waynesburg	L. C. Buente	"
Robert Auld	"			James P. Byrne	"
August Campbell	"			Joseph Irvine	"
David Gay	"			H. S. Collins	"
Gordon & Stoltzsmith	"			Driver Bros.	"
Ernst Sharprock	"			James Foster	"
James Sheen	"			Joseph Craft	"
John C. Sheppard	"			Isaac Graveson	"
Jas. C. Trotter	"			Han & Nagley	"
David L. Zimmerman	"			Hoover Stone Co.	"
Jas. McKittick	Salina			E. Howe & Son	"
Brown Coal Co.	Salineville			David Hummel	"
H. C. Huston	"			John Kasperlein	"
E. Jones	"			Kellingshaus & Kussle	"
James Madison	"			Joseph Kemper	"
Ohio & Pennsylvania Coal	"			Kilgusky Stone Co.	"
Co.	"			Klekamp & Steman	"
Jas. Strabley	"			C. Lang & Co.	"
A. Cuthb & Son	Smmonsville			David Weiss	Clarkfield
Washington Furnace Co.	"			Clarkfield Stone Co.	Clarkfield
Hanna & Gabriel	Sundrum			Seeger Bank	"
Moss Bros. & Rigby	Seneca			Albion Stone Co.	Cleveland
J. Baillie & Co.	Seneca			And & Congor	"
Harry Day	Shenoudsville			Currier Stone Co.	"
George Neff	Shields			The Diamond Portland	"
Geo. Hess	Steel			" Cement Co.	"
Rud. Bros.	Stewartsville			Forest City Stone Co.	"
Michael O'Grady	"			J. W. & M. H. Gate	"
Martin & Roun	"			Haldeman Stone Co.	"
Ohio Coal Co.	"			Wm. Lacy	"
Waddle Bros.	Strasburg			Malone Stone Co.	"
W. G. Langewer	Thurman			Forest City Stone Co.	Columbia Station
Davis & Thomas	"			Wittenover Stone Co.	"
Thos. Evans	"			Thos. Curtis	Concord
Elk River Lumber Co.	Trumble			D. Davis	Conesville
John McKinley	Unchessville			R. H. Law	Condon
Rilton & Gouls	"			Wm. Decker	"
Mrs. T. Hamilton & Son	Wadsworth			F. T. Cole	Constitution
Burns & Lisk	Wakoup			A. J. Barr	Cowin
G. W. Hodges	Wales			Chas. Barrmer	Covington
F. D. Jones	"			G. W. Bitt & Son	"
English & Canal Coal Co.	Warsaw			Covington Stone Co.	"
T. R. Lewis	Washingtonville			Loessville Stone Co.	Crestline
Gulftith & Wank	Waynesburg			Lawrence Furnace Co.	Culbertson
W. D. Summton	"			Lewis & Talbot Stone Co.	Dayton
P. Slaver	Wegge			Huffman & Reimer	Dean
Milton Coal Co.	Wellston			Amphel & Hazleton	Delaware
Riverton Coal Co.	"			Monarch Coal Co.	Demison
Wellston Coal Co.	"			J. Stough	Daniel
John Lytle & Sons	"			M. B. Blue	Danham
John McMillough	"			Cleveland Iron Ore Paint	"
Andrew Rowley	"			Co.	Cleveland
J. H. McDonald & Son	West Austintown			Iron clad Paint Co.	"
Blanchet Coal Co.	Willsville			Ohio City Metallic Paint	"
Miami Co.	Xenia			Co.	"
Andrews Bros.	Youngstown				
Harrison Coal Co.	"				
Hoge Block Coal Co.	"				
Poland Coal Co.	"				
A.O. Jones Brick & Terra	Zanesville				
Colts Co.	"				
Abraham Liney	"				
Anderson Evans	"				
M. Fisher	"				
Chas. Frampton	"				
Chas. H. Gallagher	"				
John J. Gannan	"				
A. Hazenhouse	"				
Eben Harper	"				
John F. Lucas	"				
Fred Lanz	"				
McKays & Higgins	"				
M. McNulty	"				
John S. McCellus	"				
Isaac Melvin	"				
W. T. Perry	"				
John Richards	"				
J. W. Severance	"				
Noah Swank	"				
Frank E. Stone	"				
John Swank	"				
John Shidig	Zion				

FIRE CLAY

Akron Stone-ware Co. Akron
Calumet Fire Brick Co. Calumet

GOLD AND SILVER

Four-ome Mining Co. Cleveland
32 Benedict
Hub Mining & Milling Co. "

IRON

Geo. G. Allen Akron
S. J. Ritchie, Antwerp
Thos. Fitzsimmons, Antwerp
C. C. Back, Antwerp
Bellare Nail Works, Bellare
Canton Metallic Iron Co., Canton
W. W. Baldwin, Cleveland
Cisco Mining Co., Cleveland
Consolidated & Trucking
Coal & Iron Co., Columbus
Kug, Gilbert & Warner, Dayton
Saltee Mining Co., Dayton
J. C. Hamilton, Hick-ton-on
Bard Iron Co., Hick-ton-on
Beltone Iron Works, Iron-ton
Lindsay Kelley, Lacyville
Ohio Iron & Steel Co., Radcliff
J. E. Campbell, Radcliff
J. J. Gilbertson & Co., "
Andrew Hagerly, "
Thomas Hagerly, "
E. D. McManis, "
James Pierce, "
Parker, Pierce, "
Jackson Sharp, "
Jeno Sharp, "
Claire Treat & Co., Rempel
John Blithe & Sons, Wellsdale
Simpson, Walker & Co., Youngstown

LEAD AND ZINC

Ray State Lead & Zinc Co., Mansfield
Mansfield Lead & Zinc Co., "

MICA

D. G. Palmer Geneva

MINERAL PAINT

Cleveland Iron Ore Paint Co., Cleveland
Iron clad Paint Co., "

SALT

Sugar Creek Salt Works, Canal Dover
United Salt Co., Cleveland
White Rock Salt Works, Mansville
Zald Salt Works, "
New Philadelphia Salt Co., New Philadelphia
White Rock Salt Works, Pomeroy
Zald Salt Works, "

STONE, GRANITE, MARBLE AND ONYX

E. B. Calhoun Akron
Hinge Schumacher, Akron
J. G. Tolstern & Sons, Alliance
T. C. Long, Allentown
Joseph Hosler, Amada
Andersst, Amadale
Wm. Barclay, Amadale
Camp & Thompson, Aultman
Strate Bros, Brimbridge
Peter Higgins, Barnesville
W. H. Fowler, Bensville
H. W. Cengary, "
John Throburg, Bellare
Sheldon & McMillan, Belle Point
H. Moon, "
S. A. Moon, "
O. Boche, Benent
T. D. Doherty, Bettsville
S. R. Armstrong, Black Lick

E. H. France & Son Bloomville
Kohler & Geiger Bluffton
Richter & Greenwald Braunsburg
Brice Hulton, "
Excelsior Sewer Pipe Co. Calumet
C. W. Bodey Canal Dover
K.J. Muller Stone Co. Canlon
L.J. Kenney Cary
Carpenter Carroll
R. Stanzel Centerville
J. S. Brinker Chambersburg
Chargin Stone Co. Chargin Falls
Charles Salter Chilo
Christ Adair Cincinnati
Ashtman & Glasgow "
Ridgely & Marsch "
John Boyle "
L. C. Buente "
James P. Byrne "
Joseph Irvine "
H. S. Collins "
Driver Bros. "
James Foster "
Joseph Craft "
Isaac Graveson "
Han & Nagley "
Hoover Stone Co. "
E. Howe & Son "
David Hummel "
John Kasperlein "
Kellingshaus & Kussle "
Joseph Kemper "
Kilgusky Stone Co. "
Klekamp & Steman "
C. Lang & Co. "
David Weiss Clarkfield
Clarkfield Stone Co. Clarkfield
Seeger Bank "
Albion Stone Co. Cleveland
And & Congor "
Currier Stone Co. "
The Diamond Portland "
" Cement Co. "
Forest City Stone Co. "
J. W. & M. H. Gate "
Haldeman Stone Co. "
Wm. Lacy "
Malone Stone Co. "
Forest City Stone Co. Columbia Station
Wittenover Stone Co. "
Thos. Curtis Concord
D. Davis Conesville
R. H. Law Condon
Wm. Decker "
F. T. Cole Constitution
A. J. Barr Cowin
Chas. Barrmer Covington
G. W. Bitt & Son "
Covington Stone Co. "
Loessville Stone Co. Crestline
Lawrence Furnace Co. Culbertson
Lewis & Talbot Stone Co. Dayton
Huffman & Reimer Dean
Amphel & Hazleton Delaware
Monarch Coal Co. Demison
J. Stough Daniel
M. B. Blue Danham
Knowles, Taylor & Anderson East Liverpool
McDevitt & Moore "
A. Barnes Elkhon
Columbia Ball Stone Co. Elyria
Frank Eschuth "
Wm. Walsh "
S. F. Gallagher Fallsburg
Fisher & Son Findlay
E. Bonar Flag
P. Deems Flitrock
Reiting & Diekmann Fort Jennings
Jas. C. Hays Frazeysburg
Minn, Porter & Co. Freeman Station
M. Coe & Sons, Freestone
V. Chudzinski Fremont
Buckeye Stone Co. Galum
Chester Brownstone Co. Gomer
Green Castle
N. H. Croch Greenville
N. H. Bailey "
Hamden Furnace Co. Hamden Junction
Joseph Duchman Hamilton
R. G. Wallace Hammondsville
W. H. Wallace & Sons "
E. B. Hilbery "
M. Shurborn Hemetta
J. W. Carpenter Hooker
John V. Gray & Son Iberia
Ridley & Huber Independence
Gundelberger & Sedg. "
L. Halberston "
Christ. Herr "
Joseph Kinzer "
Jesse Kandler "
E. Schmiedlin "

NAME	POST-OFFICE	NAME	POST-OFFICE	NAME	POST-OFFICE
F. D. Smith	Independence	Penn. Mining, Manufacture & Supply Co.	Toronto	McLane & Monroe	Granite
Standard Gas R. & F. B. Co.	Trouton	J. O. Deem	Twin	Milwaukee Mining Co.	"
Globe Furnace Co.	Jackson	Colindale Brick & Fire Clay Works	"	E. L. Jewell	"
McKitterick Bros.	"	Nate Agur	Union Furnace	Finna Mining Co.	Hanes
Star Furnace Co.	"	S. Brown	Vaughnsville	Wm. A. Fisher	Hardman
Trope Furnace Co.	"	Elmer Bascor	Vesper	Preston Armstrong	Harney
Harley Bros. & Bangs	Kelley's Island	Geo. Atcherson	Wadsworth	Elmer Boyce	"
M. Kent	Kent	Wm. Bascor	Walnut Grove	H. C. Brown	"
J. P. Chambers	Kinston Centre	J. N. Kipner	Warsaw	Wm. Crawford	"
J. J. Crook	Lancaster	Duncan & Bros.	Washington	Wm. Cranford	"
A. H. Snook	Lilly	C. A. Bond	Waverly	Wm. Cousins	"
Geo. Burnett	Leavittsburg	G. Lorb & Son	Waverly	R. Claypool	"
Leesville Stone Co.	Leesville	James Emmett	Waverly	E. J. Dant	"
Leesville Stone Co.	Leesville	C. Holiday	Westboro	Lewis Foster	"
Cherry Falls Iron Works	Leontona	Garkfield Stone Co.	Westbarkfield	E. J. Holden	"
Harley Bros.	Lithopolis	Stephen Borzani	Whitehouse	J. F. Malin	"
Joseph Lyndecker	Lithopolis	John Ryan	"	Price Withers	"
Hocking Clay & Mfg. Co.	Logan	W. M. Ryan	"	E. P. Moore	"
Baker Stone Co.	Lugans	S. A. Moore	White Sulphur	Joe Morris	"
S. H. Antenwelder	Lindau Falls	James Reaney	"	Jas. Paul	"
F. M. Coopeck	"	Joseph Smith	Wilbertown	F. S. Slater	"
Fred Decker	"	I. Halbeson	Willertown	H. Sterdevant	"
George Kemp	"	Mrs. K. Merkless	Wilson	M. F. Williams	"
E. L. Oglesbee	Lumbertown	Tuning Bros.	"	J. C. Wooley	"
Canton & Malvern F. B. & P. Co.	Malvern	Robert Stewart	Wyndor	Sterling Mining Co.	Jacksonville
Clemens & Sons	Marion	Robert Stewart	Wyndor Mills	J. C. Foster & Son	"
John Evans	Massillon	C. W. Morris & Howells	"	Kiesling Bros.	"
J. S. Covey	Massillon	Joseph Davis	Youngstown	Kiesling & Anderson	"
Earl & Carson	McMinn	Youngstown Paving Brick Co.	"	O. M. Knox	"
C. H. Clark	Mesopotamia	Ed Belmont	"	A. Schrupp	"
Whetmore, Robinson & Co.	Middlebush	Emory Abraham	Zanesville	W. T. Briggs	North Canyonville
Detroit Hocking Valley R. & B. Co.	Middletown	E. S. Elliott	"	S. Gibson	"
J. A. Elliott	Middletown	A. O. Jones	"	F. T. Goodridge	"
S. C. Palmer	Moscow	F. B. Townsend & Co.	"	P. H. Osher	"
Joseph Fosslett	"	"	"	Geo. H. Marston	Pendleton
David Ivett	"	"	"	John Mullan	Pearson Valley
Ohio Sewer Pipe Co.	New Lisbon	"	"	Black Butte Cons. Quicksilver Mining Co.	Portland
United States Sewer Pipe Co.	"	"	"	Bright Light Mining Co.	"
J. S. Covey	Newman	"	"	H. Bart	"
G. N. Kollar	New Philadelphia	"	"	Calhoun Mining & Development Co.	"
Lowry Baker	New Waterford	"	"	Bismark Mining & Milling Co.	"
Frank Cope	"	"	"	Gold Brook Mining Co.	"
M. Lyon	"	"	"	Mineral Hill Mining Co.	"
I. H. Rhodes	North Springfield	"	"	Shogren & Bowditch	Prague, Ky.
Union Furnace Co.	Oak Hill	"	"	Charles Heilmann	"
W. E. Brannum	Oak Furnace	"	"	C. W. McGord	"
Oggsell Bros.	Osburn	"	"	Real & Curtis	"
Bent, DeWolf	Perryopolis	"	"	Reinehart & Davis	"
W. Farnall	Perrytown	"	"	Linky Boy Mining Co.	Perryville
D. Circle	Pleasant Hill	"	"	Wally Brown	Ridgely
Fred Decker	"	"	"	Thos. Dyer	"
N. S. Baxter	Pleasant Ridge	"	"	H. P. Fargo	"
J. K. Galloway	Plymouth	"	"	Wm. Hacker	"
D. F. Irwin	Portsmouth	"	"	Baekler Bros.	"
Black Diamond Fire Brick Co.	Portsmouth	"	"	Hartman Bros.	"
C. C. Bode & Son	"	"	"	R. M. Moore	"
Portsmouth Fire Brick Co.	"	"	"	Neath Bowles	Rock Point
Reitz & Co.	"	"	"	Thomas Orr	"
J. S. Nixon	Rehoboth	"	"	Hosmer, Anderson & Co.	"
Thomas & Gardner	Rehoboth	"	"	J. T. Fassett	"
A. B. Broucher	Rockbridge	"	"	Geo. W. Lamer & Co.	"
Joseph Imboden & Son	Salem	"	"	Gestava Plut	"
Salem Stone & Lime Co.	"	"	"	Ed. Peters	"
Salemville Cooperative Manufacturing Co.	Salemville	"	"	W. Predominant	"
Kemp & Johnson	Sandusky	"	"	N. R. Thon	"
Charles Shoeple	Sardinia	"	"	Boo Long Co.	Ray Valley
Murray Bros.	"	"	"	F. L. Franks	"
Saratoga Fire Brick Co.	Saratoga	"	"	Montgomery, Finner & Co.	Rosburg
E. J. Ford	Scots Crossing	"	"	D. W. Fitzgerald & Bro.	Sims Valley
John Huns	Scott Town	"	"	March & Sons	"
D. Evans	Seely	"	"	Wm. Fawcett	"
G. H. Sumner	South Bond	"	"	J. L. Rowe & Co.	"
Holland & Stewart	South Union	"	"	D. & Brown	Sanger
Malone Bros.	"	"	"	Frank McGee	"
R. A. Maxwell	Springboro	"	"	W. J. Martin	"
George F. Frey	Springfield	"	"	Joseph A. Myers	"
Moore & Co.	"	"	"	W. Ayble	Sparta
Samuel Taylor	Steele	"	"	N. S. Barnard	"
Willard & Crichton	Steuhen	"	"	C. S. Barckand	"
A. L. Cort	Steuhenville	"	"	E. J. Clough	"
E. J. Carpenter	Stewart	"	"	J. Cook	"
J. S. Broder	Sulphur Grove	"	"	W. A. Demingson	"
H. Fleckner	Sulphur	"	"	Bartholomew & Co.	"
J. K. Repton	Tadmon	"	"	G. Hacker	"
John S. Broder	Temple	"	"	Hugh Jones	"
David Traver	Temple	"	"	M. O'Brien	"
John Herzog	Tenney	"	"	C. D. Reed	"
Wm. Peter	Tenney	"	"	Thos. Rich	"
"	Tenney	"	"	Henry Rogers	"
"	Tenney	"	"	Alex. Tarr	"
"	Tenney	"	"	Al. Waldron	"
"	Tenney	"	"	C. G. Wiley	"
"	Tenney	"	"	G. A. Wright	"
"	Tenney	"	"	S. Younger	"
"	Tenney	"	"	Pacific Coast Prospector	"
"	Tenney	"	"	Wm. & Deaconmont	Springfield
"	Tenney	"	"	Cable Bros.	Snyder

OREGON

COAL BITUMINOUS

Castle Rock Mining Co. Portland
George Clements Prospect

COLD AND SILVER

George Benson Albion
Charles Johnson Albion

W. A. Johnson Osburn
William McKay " "

C. A. Ross " "

Jas. Turner " "

Grant & Murray Astoria

Wm. Mullen " "

Melvin Littlefield Co. Astoria

E. Palmer " "

S. Berry " "

S. Carpenter " "

C. Collier " "

E. Lathen " "

Jake Wilson " "

H. Radchen " "

D. Scholts " "

F. H. Baker " "

Geo. Bolman & Co. " "

J. M. Boyd " "

Louis F. Cook " "

Lorenzo Durkee " "

E. Leroy " "

E. M. Foster " "

Indiana Mining Co. " "

Joseph McKay " "

C. Miller " "

Wm. Mulkey " "

John Palmer " "

J. H. Parker " "

J. P. Paul " "

J. P. Vargit " "

Artine Mining Co. " "

Wm. Swan Mining Co. " "

D. A. Driscoll " "

J. Howell " "

A. Barthart " "

B. Bartholomew & Co. " "

Ans. Myer " "

H. Winkat " "

W. W. Stone " "

Wm. Alfred " "

A. G. Kiler " "

John Long " "

Geo. Martin " "

T. O. Wadley " "

E. J. Sisley " "

W. S. Davis " "

John Eaton " "

Lawrence Emlen " "

Ans. Knutall " "

Huntley & Schack " "

Ed. Simon " "

Gold Beach " "

NAME	POSTOFFICE	NAME	POSTOFFICE	NAME	POSTOFFICE
Janney & Taber,	Sumpter	Joseph South,	Dunkard	Fairview Coal Co.,	Meversdale
Charles Embal	"	W. A. South,	"	Millwood Coal & Coke Co.,	Millwood
T. Cameron	Uniontown	Clay, Stewart,	"	Albott Coal Co.,	Miners Mills
L. C. Can	"	E. S. Taylor,	"	Abe Hayes Coal Co.,	Monongahela City
J. Harris	Waldo	A. D. & F. M. Spencer,	Dunmore	Watson Coal Co.,	"
A. B. Hopkins,	"	Thomas Mitchell & Sons,	East Brady	Thos. Gillett,	Mossie
Joseph Johnson & Co.,	"	Monarch Coal Co.,	"	Wm. Springer	"
P. Lallenbaugh,	"	John Pugh & Co.,	Edwardsdale	Thos. Page,	Morrisdale Mines
Thos. Senior,	"	Borner & Roberts,	Elizabeth	Bear Ridge Coal & Coke	"
D. Slagle	"	L. L. Beachy,	Elk Lick	Co.,	Mountindale
Horace G. Fitch	Woodville	Chamberlain & Shaw	"	John Gwin & Son	"
		John J. Engle,	"	Wray & Co.	"
		E. T. Hay,	"	S. S. Beckel & Co.	Mt. Carmel
		Ellas Hersherberger	"	Moorewood Coke Co.	Mt. Pleasant
Oswego Iron & Mining Co.,	Portland	E. Jones,	"	Thos. Baltimore	Moyer
Wm. Darkis	Wakio	J. B. Kemp,	"	Martin Detscher	"
R. M. Kelly	"	J. B. Kemp,	"	Thos. Jones	Nanticoke
		N. Joseph Patton,	"	W. R. Jones	"
		Dennis Wagner	"	Jas. Turner	"
		Cameron Coal Co.,	Emporium	Jos. Waraw	"
		W. L. Scott Company	Erle	Farmington Coal & Iron Co.,	New Bethlehem
		Enterprise Coal Co.,	Excelsior	Middle Lehigh Coal Co.,	New Boston
		Little Redstone Coal Co.,	Fayette City	W. J. Coleman	New Geneva
		Charlton Block Coal Co.,	Federal	A. M. Franks	"
		Ry. Florsheim	Fineville	James Hess	"
		Ohio & Pennsylvania Coal	"	B. F. Keister & Co.	Owensdale
		Co.,	"	Clearfield Bituminous	"
Mountain Lumber Co.,	Applegate	Port Coal & Coke Co.,	Fitz Henry	Coal Corporation	Pearle
Watts & Hutton	Chickamaus	Lawrence & Brown	Freshville	Cambria Coal Co.,	Philadelphia
Frank Duprat	Pendleton	L. L. Mitchell	Gallitzin	Wm. Walnut st.	"
A. Foyard	"	Pissinore, Burns & Co.,	Glen Campbell	Elkins Gas Coal Co.	"
J. H. Reddins	"	Beech Creek Canal Coal	"	24 S. Fourth st.	"
A. C. Grove	Portland	"	Glen Richey	Hartley Coal Mining Co.,	"
Oregon Paving & Coal Co.,	"	"	Greensburg	345 Walnut st.	"
W. H. Cole	"	Arona Gas Coal Co.	"	Wm. D. Jones	"
B. T. Bull	Wilderville	Greensburg Coal Co.	"	Kennel Coal Co.	"
		Harrison Gas Coal Co.,	"	353 Walnut st.	"
		Cheney Coal Co.	"	N. Y. & Middle Coal Field	"
		Mutual Coke Co.,	"	Ry. & Coal Co.	"
		Yellow Run Coal Co.	"	228 S. Third st.	"
		G. G. Stage	Greenville	Phil. & Boston Petroleum	"
		Brad. Top & Cambria	Harrisburg	70 Walnut st.	"
		Coal Co.	"	J. M. Bacon	Phillipsburg
		Chest. Creek Coal & Coke	"	Thos. Barnes & Bro.	"
		Co.	"	O. P. Jones	"
		John Shadden,	Hastings	Geo. J. Magee	"
		McFadyen Bros.,	Herritage	Samuel E. Montz	"
		J. M. Cable,	Hills	Samuel & Duncan	"
		E. F. Clark	Hooesville	John Walton	"
		Cyrus Lohr	"	Samuel Bernburgh	Phoenix
		L. A. Meyers	"	C. W. Ellenberger	"
		J. Walter,	"	Geo. Baugert	Pine Grove
		A. Dodson,	Hopewell	Archison Coke Co.	Pittsburg
		Kays Town Branch Coal	"	Bathley & Marshall	"
		Co.	"	Ohio Sewer Pipe Co.	"
		Samuel Murphy,	Houtzdale	Pacific Coal Co.	"
		United Collieries Co.	"	110 Diamond st.	"
		Wesley Fisher	Idaville	Republic Coal Co.	"
		M. Garber	"	111 Ninth av.	"
		Westmoreland Coal Co.,	Irwin	United States Fire Clay	"
		Sieger, Osborne & Co.,	Jacob's Creek	Co.	"
		J. C. Hayden & Co.	Jacksville	Vesta Coal Co.	"
		Jeddo Tunnel Co.	Jeddo	C. C. Bowman	Pittston
		Glenwood Coal Co.	Jermyn	S. C. Crum	"
		Jas. Brooks	Johnstown	J. H. Moser	"
		Camden Iron Co.	"	David Schooley	"
		E. C. Carter	"	Thos. Waddle	"
		Patton & Childs,	"	John C. Haddock	Plymouth
		Jonathan Horrocks,	"	Thos. Barnes	Rail Bank Furnace
		John James,	"	Reynolds & Lane	Red Bank Mills
		Charlton Valley Coal & Coke	"	W. C. Johnson	"
		Hillside Coal Co.	"	Denning Bros.	Sci. Clay
		Motimer & Co.	"	Flowers Field Coal Co.	"
		Spain & Cowan	"	Tyler & McKink	"
		W. G. Payne & Co.	Kingston	Thompson & Pratt	"
		White Coal & Lumber Co.	"	McIntire Coke Co.	Scottdale
		Co.	"	Brookside Coal Co.	Seranton
		James G. Henry	Kittanning Point	Thi. Cumberland Coal Co.	"
		James McIntire	"	4 North Coal Co.	"
		John E. Pinner,	"	Wm. Connel & Co.	"
		Geo. M. Davis,	Lamont	Delaware, Lackawanna	"
		John W. Davis,	"	& Western R. R. Co.	"
		John T. Williams	"	Lancaster Coal Co., Ltd.	"
		Louper Coal Co.	"	Lancaster Coal & Iron Co.	"
		Regard Coal Co.	"	Hillside Coal & Iron Co.	"
		Leedsburg Coal & Coke	"	Mt. Vernon Coal Co.,	"
		Co.	"	Providence Coal Co.	"
		Alex. McQuire	Ligonier	Eva H. Ripple	"
		R. B. Myers	"	Strauch & Williams	"
		Robert Peoples	"	Tripp & Co.	"
		C. R. Wetherman	"	Glewellin Angle & Co.	Shamokin
		Pat Leahy,	"	Mineral Railroad & Min-	"
		Wm. Miller	Lisbonburg	ing Co.	"
		Gallatin Coal & Coke Co.,	"	Isaac J. Reese	"
		Fred Blair,	Lordsburg	Smith & Keiser	"
		Robbins & Co.	"	Trentman, May & Co.	"
		Nichols & Co.	Mahoning City	Sharon Iron & Coal Co.	Sharon
		Valley Mining Co.	Mahoning	Zerbe & Co.	Shenandoah
		J. R. Smith	Manville	Salem Coal Co.	Shenksbury
		Abam Avery	Manion Centre	F. P. Jenkins & Co.	Six Mile Run
		Lamberg Bros.	"	Mather & Baumgardner	"
		Hillsdale Coal & Iron Co.,	Mayfield		
		Shenango Coal & Mining	"		
		Co.	"		

PENNSYLVANIA

ALUMINUM

COAL

NAME	POSTOFFICE	NAME	POSTOFFICE	NAME	POSTOFFICE
Graver & Madill	Shaw Shoe	Darlington & Bowers	New Bloomfield	Robert R. Jones & Co.	Statington
T. Markelick	Stanton	Elis Fisher	Newport	Ken & Fuller	"
Dingleberger & Co.	Tamaqua	Marshall Furnace Co.	"	Luzerne Slate Co.	"
Mitchell & Shepp...	"	Capt. Chas. Dolbe...	Nickel Mines	G. McDowell & Co.	"
Phila. Coal & Iron Co.	"	Jos. Wharton	Orishana	Meadow Brook Slate Co.	"
Central Connellsville	"	John Barkle	"	Metropolitan Slate Co.	"
Coke Co.	Tariff	J. C. Vanzant	Ore Hill	E. B. Velt & Son	"
Redstone Oil, Coal & Coke Co.	Tippecanoe	Peter S. Duncan	Philadelphia	Statington Slate Co.	"
Spring Hill Gas Coal Co.	Turtle Creek	Cranberry Improvement Co.	"	Statington Slate Co.	Walnutport
Blair Bros.	Tyone	Lat. H. S. Fourth St.	"	G. C. Williams & Co.	"
Elizabeth Coal Co.	"	Dallford Mining Co.	"	Albion Slate Co.	Wanamakers
Mitchell Coal & Coke Co.	"	145 N. Seventh St.	"	J. E. Williams & Co.	West Bangor
Youngstown Coal Co.	Uniontown	Kalon Chemical Co.	"	Harding, Beach & Co.	Wind Gap
United Coal & Coke Co.	United	Piedmont Mining & Smelting Co.	Pittsburg	York & Beach Bottom	York
J. Cochran, Sons & Co.	Vanderbilt	Portstown Iron Co.	Portstown	Slate Mfg. Co.	York
Joseph Langhrey	Veneta	Warwick Iron Co.	Princeton		
Osborne, Stager & Co.	Vernon	Moses Gundry	"		
Haddock & Stevens	Wampum	Lewis Lamp	"		
John Cleary	Washington	Leighorn Mining & Manufacturing Co.	Reading		
Jonathan Allison	Waynesburg	720 Centre St.	"		
A. A. Allison	"	Columbian Iron Co.	Redington		
J. D. Flangers	"	Wilson Averill	Saltillo		
Robert Hoskinson	"	James Mills	Shade Gap		
John Kennedy	"	J. A. Hook	Shigo		
Thos. W. Sayers	"	Samuel E. Bong	Topcon		
Frank Stewart	"	Topcon Furnace Co.	"		
John Zook	"	N. G. Honinger	Fredericktown		
Thos. Faneel & Son	Webster	Junata Mining Co.	Tyone		
Hanna Bros.	West Brownsville	H. Hoover	Woodbury		
A. G. Leonard & Co.	West Elizabeth				
Geo. Jones & Co.	West Newton				
Stoner & Co.	"				
West Newton Coal Co.	"				
Albion Coal Co.	Wilkes-Barre				
The Allegheny Coal Co.	"				
Cabin Creek & Kanawha Coal Co.	"				
Corryingham & Co.	"				
A. J. Davies	"				
Haddock, Sheek & Co.	"				
The Kilder Coal Co.	"				
Langelle Coal Co.	"				
Walsham Coal Co.	"				
Grassy Island Coal Co.	"				
T. J. Wood	Winter Woods Run				
E. Armstrong	Woodville				

STONE, GRANITE, MARBLE AND ONYX

James Ayker	Albion
A. Dankel	Albion
Moulton Quarry Co.	Albion
Union Slate Co.	Albion
J. T. Eddy	Albion
Orin Bros.	Albion
R. Schall	Albion
Young Quarry Co.	Albion
Emm & Welsh	Albion
Levi Knott	Albion
W. L. Shellenberger	Albion
Frederick & Son	Albion
Hollaway, Putnam & Co.	Albion
Timpanough	Albion
Lewis Lemon	Albion

MICA

MINERAL PAINT

John D. Smalley	Luna
Mountford Realty Paint Co.	Mountford
Blackwell Paint Co.	Miner
Key Stone Paint Co.	Miner
Rutherford & Bradley	Philadelphia
Dixiel Ridge	Pittsburg
Pittsburg Iron Paint Co.	Pittsburg

SALT

Allegheny Salt Co., Ltd.	Luna
High Salt Mining Co.	Philadelphia
228 S. Third St.	"
Peninsular Salt Mfg. Co.	Pittsburg
Lehigh Valley	"
Pittsburg Salt Co.	Pittsburg

SLATE

Black Diamond Slate Co.	Applandale
J. Keith & Co.	Bangor
Monarch Slate Co.	"
John Barker	"
New York Slate Co.	"
West Bangor Slate Co.	"
Hughes Slate Co.	Bellast
Block, Sheenmaker & Rob.	Bethlehem
J. L. E. Jeter & Co.	Bethlehem
Ryan Slate Co.	Bethlehem
Blairsville Pink Stone Co.	Blairsville
Henry Beech & Co.	Birmingham
W. Griffith & Sons	Birmingham
Hewitt & Co.	Birmingham
Turner, Peach Bottom	Birmingham
Delta Mfg. Co.	Delta
Peach Bottom Slate Co.	Delta
Susquehanna Slate Co.	Delta
J. Ray	East Bangor
Sch. and Arthur Slate Co.	East Bangor
Chester Slate Co.	East Bangor
700 Walnut St.	East Bangor
New Wales Hard Ware	East Bangor
Slate Co.	East Bangor
J. Wagner	East Bangor
J. K. Henry	East Bangor
A. T. McHose	East Bangor
Krass & Senger	East Bangor
Faney, Arthur & Co.	East Bangor
Central Slate Co.	East Bangor
1760 10th St.	East Bangor
Giant Slate Co.	East Bangor
J. E. Kimes	East Bangor
1822 Fifth St.	East Bangor
Puller Brick & Slate Co.	East Bangor
Key Stone Slate & Granite	East Bangor
Paul E. Balliet	East Bangor
Blue Diamond Slate & Granite	East Bangor
Reinhold Co. Ltd.	East Bangor
Flint Slate Co.	East Bangor
Evans & Bros.	East Bangor
Gap Slate Co.	East Bangor
J. H. Hordach	East Bangor

FIRE CLAY

Monongahela Fire Clay Co.	Beaver
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COLD AND SILVER

John P. Seant	Pittsburg
T. O. Boyles	Pittsburg
Middle Mining Co.	Pittsburg

IRON

Geo. Albright	Albion
John S. Batz	Albion
Geo. G. Greise	Albion
A. Henry	Albion
Chas. Lammace	Albion
Frank Leichtenwalmer	Albion
Peter Wetzler	Albion
Solomon Boyer	Albion
Miles Eckert	Albion
Wm. R. Schaeffer	Albion
J. B. Brier	Albion
Carlisle Mining & Paint Manufacturing Co.	Albion
Harry Davis	Albion
P. E. Hayes	Albion
Jesse Gungel	Albion
Gambria Iron Co.	Albion
John Leichtenwalmer	Albion
Frank Leichtenwalmer	Albion
Geo. Pentz	Albion
Lewis Beck	Albion
Bachmans Iron Mine	Albion
Thomas Iron Co.	Albion
Richland Mining Co.	Albion
The Iron Mining Co.	Albion
Kittanning Iron Co. Ltd.	Albion
Kittanning Mining Co.	Albion
A. G. Langnecker	Albion
Alex. Underwood	Albion
Sam. Drescher	Albion
John J. Cook	Albion
J. L. Fitch & Bros	Albion
Geo. H. Roth	Albion
Robt. P. Cochran	Albion
Thos. Markwell	Albion
Isaac Pelley	Albion
John G. Kaufman	Albion
Shelby & Stehman	Albion
J. K. Spang	Albion

John Brooks	Bakers Landing
Amos Ewing	Bakers Landing
Hiram Hicks	Bakers Landing
J. L. Hallowell	Bakers Landing
Rock Hill Granite Co.	Bakers Landing
Holmes & Stevens	Bakers Landing
Brookfield & Woodbert	Bakers Landing
A. M. Leach	Bakers Landing
John Lewis	Bakers Landing
George Hogg	Bakers Landing
Wm. McKinney	Bakers Landing
W. P. Davis & Co.	Bakers Landing
Henderson Marble Co.	Bakers Landing
W. B. Rambo	Bakers Landing
G. M. Condon	Bakers Landing
Control & Becker	Bakers Landing
Ita Co.	Bakers Landing
W. S. Harrah	Bakers Landing
J. H. Heston	Bakers Landing
Adam Lepp	Bakers Landing
Isaac Kato	Bakers Landing
A. O. J. O. Shong	Bakers Landing
Shaw, Tapp & Co. Ltd.	Bakers Landing
John Barker	Bakers Landing
Wm. R. Brier	Bakers Landing
J. McPhee	Bakers Landing
Leys, Hartman & Co.	Bakers Landing
Las. Foster	Bakers Landing
E. C. Stodder	Bakers Landing
James Batty	Bakers Landing
M. H. O'Brien	Bakers Landing
P. G. Taylor	Bakers Landing
Peter K. Kato	Bakers Landing
Carlisle Supply Co.	Bakers Landing
Marina Limestone Co.	Bakers Landing
Schmuckel & Co.	Bakers Landing
W. A. McLaughlin	Bakers Landing
Jose P. P. P.	Bakers Landing
Low & Kato	Bakers Landing
Geo. H. Martz & John	Bakers Landing
Ston	Bakers Landing
G. C. Taylor	Bakers Landing
Lynchburg Spring Water	Bakers Landing
John Barker	Bakers Landing
J. P. Taylor	Bakers Landing
Chas. Langst	Bakers Landing
Amos & Batty	Bakers Landing
R. Batty	Bakers Landing
S. A. Batty	Bakers Landing
J. M. Batty	Bakers Landing
M. D. Thomas	Bakers Landing
J. R. Taylor	Bakers Landing
Silver Spring Quarry	Bakers Landing
Perthshire Furnace Co.	Bakers Landing
J. K. Gales & Bros	Bakers Landing
Robt. Gales	Bakers Landing
Walters & Humphreys	Bakers Landing
A. W. Batty & Son	Bakers Landing
George Howard	Bakers Landing
Frank Orlando	Bakers Landing
P. Apple	Bakers Landing
J. B. Batty	Bakers Landing
S. G. B. Batty	Bakers Landing
A. Springman	Bakers Landing
John R. Batty	Bakers Landing

NAME	POSTOFFICE
Table Rock-stone Co	Frison
T. T. Bridge	Georges Station
Tawney, Roach & Co	Gettysburg
C. W. Zeigler	Glenwood
H. & A. Bark	Greenville
Fry Bros	
Plympton Leech	Gregory
Howells & Hampton	Harrisburg
Kitchen & Baldwin	Hazell
A. A. Hook	Hellertown
Drake, Stratton & Co	Hendricks
C. E. Kentzheim	Hermitage
E. H. Kiesel	Hickory Grove
W. M. Hillebrand	
C. J. Trout	
E. D. Brush	Hillsboro
Kipp & Reese	Hooversville
Andrews Bros	
Meyer & Gundespergen	
F. Rogers	
A. Washen	
Collins & Jones Granite Co	Hummelstown
J. S. Engle	
Hummelstown Brown Stone Co	
Round Top Granite & Freestone Co	
Geo. W. Paxton	Hunters Run
John Janel	Huntingdon Valley
Good & Flynn	Idle Park
J. H. Hermen & Co	Irish Ripple
Chas. Lohach	Ironton
H. Rauhach	
J. Scholt	
F. O'Neill & son	Jenkintown
J. Satterthwaite	
C. L. Bell	Jermyn
Michael Roberts	
S. C. Whitmore	
J. W. Clark	Jersey Mills
Howard Holt	
G. Reese	Kimble
Ephraim Kimble	Kirkland
Bazdad Stone Co	Kittanning
Geo. B. Dougherty	Larksville
Harrison Nosholt	Lebanon
Hartfelder Bros	Lowestown
A. McAnly	Lune Hill
J. Suthers	Linstown
J. McArthur	
Wass & Langer	Littletown
C. H. Bulvers	Lumberville
W. Keupke	
Lumberton Granite Co	
J. Paul	McKen's Gap
Manning & Davis	
W. M. Rice	McKen's Mills
McMann & Reley	Manorville
J. Gower	
H. J. Conner	Mast Hope
A. J. Quick	
M. C. N. Johnston	Milansville
Sam'l. Johnston	Norton
A. Merkel	Moslem
John Conrad	Mr Joy
D. R. Boyd	Mt. Pleasant
B. G. Duncan	
Joseph Hunt	
J. C. Keller	Moyer
J. R. Davis	Nanticoke
J. Hamilton	
E. T. Williams	New Geneva
Andrew Mosher	New Milford
Wm. Holmes	Newport
Henry Mitchell	Newtown
Frank Gardner	Nicholson
J. S. Rodgers	Oakdale
C. Bosler & son	Ogontz
A. J. Engle	Parkside
N. K. Detrick	
Braceport & Conshohocken Stone Qy	Phikadephina
D. C. Cleaver	
10th & Spz. Garden sts.	
Conshohocken Stone Co	
David Jones	
733 Green St.	
New England Brown Stone Co	
22nd Chestnut St	
Old Dominion Co	
Pennsylvania Granite Co	
20 S. Broad St.	
Portable Improvement Company	
Grand Bldg	
B. M. & J. T. Shanley	
1425 Market St	
Southern Red & Brown Stone Co	
104 N. Seventh St	
S. P. Wetherill Co.	

NAME	POSTOFFICE
G. L. Stranger	Phenix
Vanarsdlee & Buckwalter	
W. E. Stark	Pierceville
Joseph Stephens	
S. A. Thomas	Pine Grove Furnace
South Mountain Mining Co & Iron Co	Pittsburg
C. A. Balph	
Reckley Sand Co	
10 Diamond St.	
Bentle & Martin	
Burgers Bros	
Central Vermont Mar.	
De Co	
Cleveland Stone Co	
J. K. Davison	
John Fay	
Haller & Beck	
Hestings Quarry Co.	
Jolly Bros	
H. G. Lageman	
Lazonia Stone Co	
W. C. & J. M. Taylor	Pogansport
Smith Bros	Pont Pleasant
Gilmer Bros	
S. N. Haley	Pottstown
Thomas Reckley	
May & Shanner	
G. Nagle & Co	
H. W. Nagle	
Joseph Clark	Redington
D. M. Fane & Co.	Roaring Spring
Keystone R. & T. C. Co.	Rochester
Edward Tigh...	Rowland
J. A. Park	Saltito
Saratoga Stone Co	Scranton
Samuel Sykes	
Dot N. Washington av.	Sells Station
Samuel Bashear	Seewickley
J. Brash	
P. C. Crighton	
Wm. Dickson	Sharon Hill
G. A. Hazlett	Shenann
R. T. Kingsbury	Shickshinny
Round & Boone	Shillington
J. Trout	Silvira
Hoodley & Fish	
M. Montgomery	
M. S. Silvira	Skinner's Eddy
E. Ruppelt	
Tewksbury & Co.	Slattington
Samuel Caskey	
Griffith E. Davys & son	Smadley
F. C. Granite Co	
Pennsylvania Granite Co.	
J. Trum	
Talbot & Co.	Southampton
Jas. Torbert	Spring Mount
John Conrad	Summittown
Geo. Miller	Southmore
Michael Hogan	
C. E. Eaden & Co	Swatara Station
Wm. Beaver	
Cyrus Gangrich	
S. M. Gangrich	
Christ Hershey	
Wm. Retyson	
L. Zimmerman	Terrytown
Daniel Coleman	Thornbury
J. H. Brumton	
George Newman	Tiwoh
H. J. Schmoeyer	Trexletown
A. J. Morris	Union
Boyd & Co.	Unionville
W. H. Logan & Bro.	Upper Boxboro
And & Klander	Valde
C. A. Allen	Wall
Good, Guffy & Boyd	Warwick
Joseph Gode	Water Cure
Fox Hill Granite Co.	
J. Hicks Bros	
A. J. Jolly & Co	Watsonstown
Charles Armstrong	
Henry Hoyt	Waynesburg
R. H. Johnson	
J. Pester	
J. Risk	Webster
A. Kelley	Weldon
George Hamnell	Williamsburg
Pittsburg Limestone Co	
Schmucke & Co	
John Grady	Winfield
Wm. Little	Wilbano Penn
John Foster	Winderdale
E. Funt	Wyams Gap
E. Kolobius	Wyoming
York Haven Paper Co	York Haven

RHODE ISLAND

STONE, GRANITE, MARBLE AND ONYX

NAME	POSTOFFICE
John C. Harris	Arlington
E. A. Angell	Centredale
W. H. Cary	Centerville
R. B. Spencer	
D. Taylor Jr	Cranston
Richard Jenner	
New England Mining Co.	
Nelson Tibbs	
Joseph McOrnick...	East Providence
F. L. Mathewson	Harrisville
Fletcher & Palmer	Nantite
A. Desjardiers	Providence
Gauvey Bros	
J. T. Tank	
20 Exchange Bldg.	
N. Titus	
K. McKay	Valley Falls
Chapman Granite Works	Westerly
Dalhettie Granite Wks.	
Dixon Co	
Kirkpatrick & Sheehan	
Murdy & Bird...	
Rhode Island Granite Works	
Smith Granite Co	
Stewart & McDonald	
Robert Thompson	
Thompson & Platt	Woonsocket
Fairmont Farm Co	

SOUTH CAROLINA

COLD AND SILVER

L. Briggs	Blacksburg
Carolina Mining Co	
Rees & Carroll	
J. A. Smith	
IRON	
Carolina Sulphuric Acid Manufacturing Co	Blacksburg
Magnetic Iron & Steel Ore Co	
Rees & Black	

MICA

M. M. Mammy	Fort Mills
J. C. Lee	Long Creek
Dorsey & Sifton	Walthalla
H. W. Kuhlman	

PHOSPHATE

Horseshoe Mining Co	Ashepo
Bamberg Albish Fert & Pig Co	Bamberg
Beaufort Phosphate Co	Beaufort
Carolina Manufacturing Co	
Oak Point Mines Co.	
W. Y. Trupp	
Ashepo Phosphate Co	Charleston
Atlantic Phosphate Co	
Barton Phosphate Co	
Elstio Phosphate Co	
Eurola Manufacturing Co	
Florida Phosphate Co	
F. J. Hunahan	
Imperial Fert. Co	
Mt. Holly Mining & Manufacturing Co	
Royal Fert. Co	
Wanda Phosphate Co	
Wilcox & Gibbs Fert. Co.	
Goosey Manufacturing Co	Goosaw
Greenville Fert. Co	Greenville
Gate City Phosphate Co	Greenville
F. C. Fishborne	Jacksonboro
Baldwin Fert. Co	Port Royal
Port Royal Fert. Co.	
Campbell & Heitz	Rantowles
W. M. Cummings	Rokeville
Golden Gate Mining Co.	Spartanburg
Wm. Gregg	Summerville
Sumter Fert. Co	Sumter

STONE, GRANITE, MARBLE AND ONYX

T. G. Lamar & Co	Rath
R. McNamee & Co	Blacksburg
Black & Rose	
A. E. Martin	
Reese & Jenkins	
Columbia Granite Const & Mtg Co	Columbia
York Granite Co	Yorkville

TIN

Stephens Tin Co.....Seladon

SOUTH DAKOTA

COPPER

NAME	POSTOFFICE
Copper Nob Mining Co.	Galena

COLD AND SILVER

Calmest Mining Co.	Deadwood
Cheyenne Consolidated Mining Co.	"
Higdon Mining Co.	"
Key-Sonnet Marble & Mining Co.	"
McDonnell Mining Co.	"
Silver Queen Mining Co.	Galena
A. C. Poland	Rapid City
Homestead Mining Co.	"

CYPSSUM

W. T. Powers	Spearfish
S. Plaster & Stueco Co.	Sturgis

STONE, GRANITE, MARBLE AND ONYX

W. A. Doyle	Galena
Piedmont Improvement Co.	"
Felix Poznansky	Piedmont
E. M. Reeves	Rapid City
T. Swenney	"
Drake Granite & Marble Co.	Spearfish
Red Wood Co.	Spearfish
John Burke	Whitecourt
C. Kane	"
Wm. Nolan	"

TIN

Hennessey & Co.	Ben Ledge
Mark Rydell	"
Jensen & Jackson	"
McMakin & Co.	"
White & Jensen	"
A. Brooks	Carlisle
Henry Alben & Co.	East City
Clark, Wood & Co.	"
Gaylord & Russell	"
Charles Hamilton	"
Barney Peak Mining & Milling & Mfg. Co.	"
Frank Herbert	"
E. L. Hunt	"
Kleinman & Co.	"
C. Lincoln & Co.	"
McLaughlin & Co.	"
Wm. Ochs & Co.	"
Mrs. Wm. Franklin & Co.	Lila Mine
Gard & Co.	"
J. T. Reed	"
Swartz & Co.	"
T. Wheeler & Co.	Hayward City
Henry Rues & Co.	"
Irwin Albin & Co.	"
B. Orshagen	"
E. C. Smith & Co.	"
M. Thomas	"
George Burr	Hill City
Allen Code & Co.	"
Victor Conner	"
John Good & Co.	"
John Phelan & Co.	"
Blumhart & Co.	Lead City
E. J. Davis	Rapid City
Franklin & Co.	"
James Hart	"
Jacoby & Eversly	"
Scott & Ward	"
Swenney & Co.	"
Woods & Co.	"

TENNESSEE

COAL

John Koolster	Altamont
S. H. Northcutt & Co.	"
W. W. James & Co.	Bristol
James Alexander	Bristol
Chas. S. Burr	Chattanooga
Ellis Landis	"
Hy. Miller	"
J. F. Smiddy	"
J. F. Wheeler	"
Leander Wilson	"
Blue Springs Mining Co.	Chattanooga
Geo. M. Clark	"
Care of James & Co.	"

NAME	POSTOFFICE
Bade Coal Co.	Chattanooga
G. W. Ware	"
Empire Coal Co.	Coal Creek
John T. Evans	"
Geo. Pickett	"
Royal Coal & Coke Co.	"
Shamrock Coal Co.	"
Jacob Wyatt	Crossville
Chattanooga Pottery Co.	Dayton
Dayton Coal & Iron Co.	"
Geo. Furman	"
Eden Mary Coal & Coke Co.	Eden Mary
A. L. Spears	Jasper
Consolidated Coal & Iron Co.	Kelley's Ferry
McNabb Coal & Coke Co.	"
T. P. Marshall & Co.	"
Coal Creek Mining & Manufacturing Co.	Knoxville
Knoxville Iron Co.	"
Morgan Coal & Coke Co.	"
Southern Locomotive Co.	"
San Antonio Coal & Coke Co.	Spring City
J. L. Wierck	Welker Mines
Richards & Howards	"
Bohne Iron Co.	"

COPPER

J. L. Hicks & Co.	Bristol
Burke Barre Co.	Bristol
Ducktown Sulphur, Copper & Iron Co.	"

COLD AND SILVER

E. L. Earnes	New Smyrna
Wm. Granger	"
John Johnson	"
S. T. Weather's	"
J. D. Vaughan & Co.	Rebama

IRON

Daniel Fultz	Altamont
W. A. G. Smith & Co.	"
H. H. Baynes	Bristol
A. M. Crum	Daytonville
Emoryville Lumber Co.	Emoryville
Land Iron & Ry. Co.	Emoryville
Atlanta Iron Co.	Hay Mills
Southern Iron Co.	"
Elk Valley Coal & Iron Co.	"
"	"
John R. Bond	"
Baskin-Hensley	"
Day & James	"
J. W. Keller	"
W. M. Snyder	Spring City
A. H. Keld	Summitville

LEAD AND ZINC

John W. Bailey	Morehead
Dr. T. H. Slevy	New Smyrna

MINERAL PAINT

Chattanooga Paint Co.	Chattanooga
Scholar Bros.	"
W. C. Ditcher	"

STONE, GRANITE, MARBLE AND ONYX

A. J. G. Smith	Belle Air
J. C. Buckley & Co.	Bristol
Chattanooga Marble & Stone Co.	Chattanooga
Stone Co.	"
Kelley Bros.	"
J. W. Boyd	Cleveland
Boyd & Marks	"
Ernst & Millon Bros.	Crossville
B. McQuinn	"
Chattanooga Pottery Co.	Dayton
W. H. Truck & Co.	Daytonville
Bridgport Stone Co.	Daytonville
E. J. Brown	Day Mills
John Cochran	"
A. J. Deppert	"
Geo. Goodrich	"
W. D. Humphreys	"
Jasper Mining Co.	Jasper
Consolidated Marble Co.	Knoxville
T. S. Gaultrey	"
Knoxville Marble Co.	"
Marble Marble Co.	"
Stuart Marble Co.	"
J. W. Beale	Marble Swell
E. C. Buckett	"
M. G. Dismody	Memphis
Howard Landis & Co.	"
J. K. Koster	"
P. Ginzley	"

NAME	POSTOFFICE
J. J. Cain	Nashville
W. H. Haslam	"
A. E. Howell	"
G. W. Burgess & Co.	Talbotta
Camden Marble Co.	Powder Spgs. Gap
Fulkerson Chestnut & Co.	Rogersville
Baskins county Marble	"
Hornishell & Co.	"
J. M. Pierce	"
J. H. Price & Co.	"
W. H. Russell	"
South Pittsburg Coal Co.	South Pittsburg
Structure & Bldg. Co.	Summitville
Wm. West	"
Tazewell Cement & Lime Co.	Tazewell

TEXAS

COAL BITUMINOUS

E. B. Pusey	Abilene
Peerless Coal Co.	Calvert
Knith Coal & Coke Mining Co.	Dallas
H. C. Gathouse	Deer Park
Eagle Pass Coal Co.	Eagle Pass
Montague and Mineral Co.	El Paso
Texas & Pacific Coal Co.	"
Lanier Coal Co.	Laredo
Texas Coal Mining & Milling Co.	San Antonio
Texas & Pacific Coal Co.	Thorburn

COLD AND SILVER

S. Moore	Beckton
M. A. Molnar	Beldon
Silver Pass M. Co.	Chelms
Lawrence L. Morgan	El Paso
Hard & Madley	Van Horn

IRON

E. B. Bell Mining Co.	Bledso
Lane Imp. & Iron Co.	Lane
Bessmer Iron Mining & Mfg. Co.	Parkburg
L. A. Fortuna Mining Co.	San Antonio

SALT

Texas Salt Co.	Georgetown
Star & Crescent Salt Works	Crystal Springs

STONE, GRANITE, MARBLE AND ONYX

Smith & Moore	Abilene
E. B. Pusey	"
M. A. Molnar	Beldon
J. M. Paul	"
S. L. H. Smith	Bledso
E. L. Johnson	"
Geo. Stotts	"
E. S. McSpadden	Cameron
J. L. V. Van	"
C. O. Kelly	Cameron
Burglar & St. John	Homer Grove
J. K. L. Kelly	Lane
J. Goodman	"
E. L. Hensley	Lane
Texas Mining & Imp. Co.	Marble Falls
W. B. Moore	Rockledge
Edward E. Braddon & Sons	"
W. B. N. S. S.	San Antonio
Mike Sledge	Waco

UTAH

COAL BITUMINOUS

H. Leach	Coeville
E. Taylor	"
Geo. Wynn	"
Coaly Bluffs Coal Co.	Coeville
C. H. Spang	"
P. C. Christopherson	Midvale
Jas. P. Campbell	"
William Cassady	Rocky Mountain
William Denney	"
Frederick John	"

COPPER

Victoria Copper Mining Co.	Aspen
Adams & Bladen	"
Monthly Mining Co.	Montezuma
M. S. G. G.	"

COLD AND SILVER

NAME	POSTOFFICE
J. L. Evans	Adamsville
T. M. Ewens	"
Ross, Griffith & Sons	"
Chas. Rolfe	"
B. Bates	Alpine City
R. W. Bennett	"
W. H. Bondson	"
E. Nash	"
M. T. Woods	"
American Fork Cons. G.	American Fork
& S. Mining Co.	"
W. H. Grant	"
E. E. Hunter	"
Edw. Young	"
A. N. Bennis	Elkhorn Canyon
Brooklyn Mining Co.	"
M. W. Davis	"
McK. Gibbons	"
Dan Heaston	"
East Chance Mining Co.	"
Miners' Dream Mining Co.	"
South Galena Mining Co.	"
Telegraph Mining Co.	"
Yosemite Mining Co.	"
J. F. Carroll	Caineville
Daniel Cook	"
Stephen Founsworth	"
E. K. Hanks	"
Mount Baldy Mining Co.	Castle Gate
Davis & Schmidt	Elvorka
Eagle Mining Co.	"
Eureka Centennial Mining Co.	"
Eureka Hill Mining Co.	"
Gold Tunnel Mining Co.	"
Northern Spy Mining Co.	"
Seneca Consolidated Co.	"
Tinette Tunnel Co.	"
Kaiser	Greenwood
Adrian Peterson	Huntsville
Carl E. Peterson	"
Fred. Syrett & Co.	Kingston
Nels Christensen	"
H. B. Westover	"
W. Fairhurst	Magnolia
The Gold Blossom Mining Co.	"
Alma & Plata Mining Co.	Mammoth
Desert Mining Co.	Marysville
Gold Hill Mining Co.	"
Richfield Mining Co.	"
T. Clark	Millard
Jas. Forge	"
Star Mining Co.	"
Jos. Banks Jr.	Minersville
John Bradshaw	"
Wm. J. Davis	"
Hans Davison	"
Jas. Gallop	"
Frank Lessing	"
Jos. H. Rollins	"
Alma Agate & Co.	Monia
James Barristson	"
J. Harris	"
L. Hollaway	"
Wm. Patterson & Co.	"
S. M. Reed	"
E. B. Roberts	"
A. P. Young	"
B. Young	"
A. A. Gibson	Mt. Pleasant
John H. Erickson	"
Jos. Lemont	"
Hickman Mining Co.	Nephi
Neb Mining Co.	"
The Denver & Ogden Mining Co.	Ogden
Care of S. S. Schramm	"
David Kay	"
Stevens Bros.	"
William Sullivan	"
Luc Appleby	"
Bauer Mining Co.	Ophir
Barker Bros.	"
Frank Barker	"
C. Chisholm	"
Cherokee Land Mining Co.	"
Don Mining Co.	"
A. A. MacDonald	"
Monarch Mining Co.	"
Northern Light Mining Co.	"
Ophir Hill Mining & Milling Co.	"
Telegraph Consolidated Co.	"
Peter J. Pollock	"
Isaac Roland	"
Geo. St. Clair	"
Elk Gully M. & M. Co.	"
McCays Mining Co.	Park City
Park City Mining Co.	"

NAME	POSTOFFICE
Edw. Pike	Second to None Mining Co.
Caro A. L. Towle	"
The Dixie Mining & Smelting Co.	St. George
Gen. Logan Mining Co.	Salt Lake City
The Lucky Boy Mining Co.	"
Carr Nicholas Troweck	"
Midway Queen Mining Co.	"
Monte Cristo Mining & Milling Co.	"
North Tintie Cons. Mining Co.	"
Pride of the West Mining Co.	"
St. Louis Argenta Mining Co.	"
G. J. Sullivan	"
York Mining Co.	"
American Eagle Mining Co.	Silver City
Frank Azzalen	"
P. H. Connell	"
Wm. Gundry	"
W. W. Hinch	"
J. F. Koppes	"
Jas. McLaughlin	"
W. H. Menary	"
Northern Spy Mining Co.	"
Ocean Wave Gold & Silver Mining Co.	"
R. S. Reed	"
Nelson Sandberg	"
Shoier Cons. G. & S. M. Co.	"
H. H. Sawles	"
E. B. Walker	"
C. A. Wheeler	"
Jas. G. Wilder	Silver Reef
Leaves Mining Co.	Springville
Brooklyn Mining Co.	"
Levi Curtis	"
R. J. Krumpa	"
North Star Mining Co.	"
Samuel F. Lee	Tooele
A. Anderson	Vernon
Bennion Bros.	"
J. Cook	"
P. Hanson	"
P. Jorgenson	"
C. Rollins	"
O. H. Rollins	"
C. D. Saxton	"
D. Sharp	"
J. Sharp	"
T. Taylor	"
Lee L. Clark	Alpine City
H. Healy	"
E. W. Jones	"
L. G. Wilkin	"
Bladen & Harris	Cedar City
Alma Agate & Co.	Monia
L. Babcock	"
James Barristson	"
J. Harris	"
I. Holiday	"
Elms Molyneux	"
Wm. Patterson & Co.	"
S. W. Reed	"
E. B. Roberts	"
W. A. Starr	"
John Yates	"
A. P. Young	"
B. Young	"
Neb Mining Co.	Nephi
Albion Mining Co.	"
Glencoe Mining Co.	"
C. W. Bennett	Salt Lake City
Jas. Spitz	Stockton
G. Whitting	"
Hot Springs Salt Co.	Ogden
Utah Salt Co.	"
C. Williams Bros.	"
Redmond Salt Co.	Redmond
Salt Lake City	"
Indiana Salt Co.	Salt Lake City
Jersey & Co.	"
Salt Lake Gaiette Co.	"
Stanses Salt Co.	"
Utah Forwarding Co.	"
J. E. Hull & Co.	Springville

SALT**STONE, GRANITE, MARBLE AND ONYX**

NAME	POSTOFFICE
S. Marsh	Alpine City
Napier Bros.	Castle Gate
Lunt Bros. & Co.	Cedar City
W. H. French	Codyville
Culmer Bros.	Fort Duchesne
Gilson Asphalt Co.	"
W. J. Soble	Gale
Mountain Stone Quarry	Park City
Silver Branch Stone Quarry	"
Diamond Kynne & Co.	"
14 Commercial Block	Salt Lake City
National Rock Co.	"
71 Culmer Block	"
F. G. Peterson	"
73 S. Third East	"
John Sherrill & Co.	"
Second South S. West	"
Sixth West	"
Thistle Rock Co.	"
22 W. Second South	"
Varley & Everitt	"
147 S. West Temple	"
Willard Child	Springville
J. Smith	"

SULPHUR

Barnes Sulphur Co.	Salt Lake City
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VERMONT**IRON**

J. C. Oron	Brandon
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LEAD AND ZINC

John Hastings	Brandon
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MINERAL PAINT

Leicester Mineral Paint Co.	Leicester
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SLATE

J. J. Jones	Castleton
Goodwin, Metcalf & Co.	Fair Haven
Hatch Hill Slate Works	"
Hazard Slate Co.	"
O. J. Pierce	"
Scott Hill Slate Co.	"
M. H. Vail	"
Welsh Slate Co.	"
Adams Slate & Tile Co.	Northfield
J. W. Deane	Pondferry
Evans & Thomas	"
Griffith & Nathaniel	"
Jane S. Griffith Williams	"
New Empire Slate Co.	"
G. Parker & Son	"
J. W. Roberts & Co.	"
T. R. Griffith	West Pawlet
O. R. Jones & Co.	"

SOAPSTONE

Union Soapstone Co.	Chester
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STONE, GRANITE, MARBLE AND ONYX

Jas. G. Brown	Barre
Torsyth & Luzzum	"
Green Mountain Granite Co.	"
Jos. Pries	"
S. Kimball	"
J. W. Mazon	"
Monumental Granite Co.	"
J. B. Taylor	"
R. B. Godfrey	Bennington
Barthold Marble Co.	Brandon
Common Marble Co.	"
S. L. Goodell & Co.	"
Neshoba Marble Co.	"
J. C. Oron	"
Fluxey & Simonds	"
Trotin Marble Co.	"
Burlington Mining Co.	Burlington
Phil Bros. & Co.	Centre Rutland
E. C. Hutchinson	Chester Depot
W. M. Cairns	East Barre
Guy Bros.	"
Vermont Red Slate Co.	Fair Haven
J. L. Butterfield	Watson
Continental Marble Co.	Manchester
Admission County Marble Co.	"
Cutter Marble Co.	Middlebury

NAME	POST OFFICE
E. P. Fletcher	Middlebury
Export-Sior Granite Co	Middlebury
Granite Construction Co.	Middlebury
Florence & Wakefield	Pittsford
Marble Co	"
Smith & Co	Rutland
Champion Marble Co.	"
T. M. Deal	St. Albans
Carriek Bros. Granite	St. Johnsbury
R. W. Laird	"
Charles Road	South Dorset
Tyrel & Kent	"
Blue Mount Granite Co.	South Ryegate
Clark Bros	West Dummerston
Anderson Marble Co.	West Rutland
A. G. Bardin	"
Dorset Marble Co	"
Esperanza Marble Co.	"
Orville Marble Co.	"
Shedden & Sons	"
Williamstown Gt. Co.	Williamstown

VIRGINIA

COAL

Belle Hampton Coal & Iron Co	Belle Hampton
R. A. Ayers	Big Stone Gap
J. B. Singleton & Letcher	"
J. R. Taggart	"
Wm. J. Bell	Blacksburg
M. Kipp	"
Elliot's Knob-Iron & Coal Co	Buffalo Gap
Logan Coal & Coke Co	Hamlettsville
Pigeon Creek Coal & Coke Co	"
Allegheny Trading Co.	Clifton Forge
Farmville Coal & Iron Co	Farmville
Middleton Coal Mining Co	"
J. R. Keister	Madethan
Abnoka Coal Co	Prices Fork
P. F. Sheppard	"
Abnoka Coal Co	Pulaski
Old Dominion Mining Co	Richmond
Brooklyn Coal Co	Stanton
First Rock Coal & Coke Co	"
Wolf Trap Coal Mining & Ice Co	Wolf Trap

COPPER

Armstrong Copper Mines Co	Miner's Fork
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COLD AND SILVER

Lithium Milling Co	Alexandria
South Elena Vista Land & Imp. Co	Buena Vista

CYPSSUM

J. D. Barnes	Bradford
Holston Salt & Plaster Co	Saltsville

IRON

Daniel Jordan	Alvins Creek
Nephite L. & Z. Mining Co	"
Leopold Mining Co	Austsville
Wm. A. Bell	Blacksburg
Houston Mining Co.	Buchanan
Anderson Copper	Camden
Kingsford Iron Co	Christiansburg
Wm. C. G. Myers	"
Allegheny Mining Co	Clifton Forge
J. H. Golden	"
A. L. White	"
Columbia Lumber Front	Columbia Furnace
Ralph Patch Iron Co.	Coxington
Gen. W. W. Sklar	Camden
American Manganeses	Clinton Station
C. A. Haden	Farmington
Geo. L. Carter	Foster Falls
Shenandoah Furnace Co	"
Ford's Iron Co	Green Wilton
John L. Hunt	Hunt's Store
Jas. Woodson	Iron Gate
Longdale Iron Co	Longdale
Wm. H. Lottier	Marion
Bernardo Ochert & Co	Port Washington
J. B. Price	Price's Forks
Hughes & Brandt	Pulaski City
Rock Creek Coal & Iron Co	"
Pulaski Development Co	"
Pulaski Port Co	"

Richlands Flint Glass Co	Richlands
Long Creek Co.	Richmond
The Southern Coal & Iron Co	"
10 S. Ninth St.	"
James R. Steel Co.	"
Virginia Steel, Iron & Slate Co	"
301 E. Main St.	"
Knox Exploration Co	Roanoke
Perry's Virginia Zinc Iron Mine	"
H. Griffiths	Rye Valley
H. B. Hull	"
R. L. Nelson	"
Salem & Craig Mining & Mfg. Co	Salem
Manganeses Mining Co.	Seven Flats
Proctor's Ontario Iron Co	Shenandoah
Roberts & Deard	"
Shenandoah Furnace Co	"
W. M. Peery	Tagewell
Savannah Steel & Tin plate Co	Triford
Buff Run Coal & Ice Co	Warrenton
Shenandoah Lumber & Iron Co	Winchester

LEAD AND ZINC

Rich Mink Barites Co	Marion
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MANGANESE

E. H. Childer	Waynesboro
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MICA

Booker Robertson	Amelia
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PHOSPHATE

Alexander Portland Cement Co	Alexandria
Standard Portland Phosphate Co	"
Hamlin Co	"
American Portland Cement Co	Gosport
Columbia Limestone & Phosphate Co	Harpers Ferry
Norfolk, Mass. & Phila. phosphate Co	Norfolk
Virginia Portland Phosphate Co	Petersburg
Atlantic & Virginia Portland Cement Co	Richmond

SLATE

Virginia Slate Co	Yanchoing
J. E. Wagon	Old Town
Washington Const. Co	Bartholomew

SOAPSTONE

Allegheny Soapstone Co	Hindsville
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STONE, GRANITE, MARBLE AND ONYX

Columbia Building Material Co	Alexandria
Locket & Co	Baloney Falls
Kanode Bros	Blacksburg
Kinder & Shuler	"
M. Kipp	"
Brentsville Brownstone Co	Brentsville
E. E. Breeden	Buchanan
J. E. Wilson	"
J. H. Buchanan	Charlham H.
W. A. B. Buchanan	"
Virginia L. B. & S. Pipe Co	Charlottesville
J. S. Ham	Coxington
Hunt & Carter	Coxington
J. L. Rixey	Cropper
J. S. Smith	"
Charles W. Nade	Edgarville
A. A. McCheney	Edgarville
R. Thompson	"
F. Dallon	Indian Row
J. S. Jones, Mares & Co	Iron Gate
Longdale Iron Co	Longdale
Wm. H. Ford	Fanchburg
1525 Main St.	"
May Brownstone Co	Manganeses
A. R. Cook	Petersburg
J. W. Smith & Son	"
Adelstein Brownstone Co	Richmond
Peter Copland	"

Virginia Steel, Iron & Slate Co	Richmond
301 E. Main St.	"
Westham Granite Co.	"
King Mining Co	Roanoke
United States Mineral	"
Black Point Co	"
A. Z. Cavaresi	Rural Retreat
Columbia Marble & Onyx Co	"
J. W. Sprague	"
Washington Marble Co	"
Holston Salt & Plaster Co	"
Palmer, Carpenter & Co.	Saltsville

SULPHUR

Armstrong Sulphur Mines Co	Fobersville
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WASHINGTON

ALUMINUM

Ida Aluminum M. & Mfg. Co	Spokane
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COAL BITUMINOUS

Pineet Sound Lumber Co	Black Diamond
A. Sheppard	Maple Valley
Bellevue Bay Lumber Co	New Whitman
Bellevue Bay & East	"
D. Chapman & Thomas	"
Light Coal Mining Co	"
R. E. Samuelsen	"
Monte Carlo Mining Co	Palmer
Alta Coal Co	"
Bellevue Bay Lumber Co	Port Townsend
Pineet Sound Lumber Co	Seattle
Coal & Lumber Co	Siemash
Coal & Lumber Co	Tacoma
Coal & Lumber Co	"
Rich H. Co & Co	"
Sims Coal Co	"

COPPER

Crayford, Harmon & Co	Seattle
Pig & Sourd Iron Co	"
H. Williams	"

COLD AND SILVER

Gen. W. W. Sklar	Camden
Leopold Mining Co	Austsville
Wm. A. Bell	Blacksburg
Houston Mining Co.	Buchanan
Anderson Copper	Camden
Kingsford Iron Co	Christiansburg
Wm. C. G. Myers	"
Allegheny Mining Co	Clifton Forge
J. H. Golden	"
A. L. White	"
Columbia Lumber Front	Columbia Furnace
Ralph Patch Iron Co.	Coxington
Gen. W. W. Sklar	Camden
American Manganeses	Clinton Station
C. A. Haden	Farmington
Geo. L. Carter	Foster Falls
Shenandoah Furnace Co	"
Ford's Iron Co	Green Wilton
John L. Hunt	Hunt's Store
Jas. Woodson	Iron Gate
Longdale Iron Co	Longdale
Wm. H. Lottier	Marion
Bernardo Ochert & Co	Port Washington
J. B. Price	Price's Forks
Hughes & Brandt	Pulaski City
Rock Creek Coal & Iron Co	"
Pulaski Development Co	"
Pulaski Port Co	"

NAME	POSTOFFICE
Cons. Silver Crown Mining Co.	Spokane
International Mining Co.	"
220 Green Block	"
Josephine Mining Co.	"
Katoluh Mining Co.	"
Missoula & East Chance	"
M. Co.	"
National Mining & Development Co.	"
The Paulsen Ruby Mining Co.	"
Spokane & Gr. North M.	"
" Co.	"
Troy Development Co.	"
Union Jack Mining Co.	"
Emile Mining & Milling	Tacoma
" Co.	"
Eureka Mining Co.	"
Nettie Mining Co.	"
Fidelity Trust Bldg.	"
Trojan Mining Co.	"
Washington & Nevada Mining Co.	Vancouver
Silver Mountain Mining Co.	Walla Walla
J. McKelvey & Co.	Washington Bar

MICA

G. A. Rogers	Asotin
STONE, GRANITE, MARBLE AND ONYX	
J. J. Breimon	New Winterton
Denny Clay Co.	Seattle
Idaho A. M. & Mfg. Co.	Spokane
Spokane Pressed Brick Co.	"
John L. Long	Tenino
A. Robertson & Co.	"

WEST VIRGINIA

COAL BITUMINOUS

Boggs' Run Mining Co.	Boggs
Flat Top United Coal Co.	Branwell
Cedar Grove Consolidated Coal Co.	Cedar Grove
Preston Lumber & Coal Co.	Fourth
Crown Hill Spint & Coal Co.	Crown Hill
Nathaniel Bush	Gaston
Chas. & Gaston	"
T. M. Gaston	"
S. C. Sutton	"
Thomas Pentong	Gladestville
Frederick Pentong	Barkes Nest
Frederick Spint & Coal Co.	Huntington
Wheeling Mining & Manufacturing Co.	Wheeling

COLD AND SILVER

The Baltimore Mining Co.	Charleston
The West Virginia Gold Mining & Milling Co.	Fairmont

IRON

Adrian Land & Development Co.	Charleston
Brilliant Steel & Iron Co.	Wellburg
Parbes, Carmichael & Co.	"
Hall & Knight	"
C. H. Meyers	"
G. M. Park	"
Principes Furnace & R.	"
M. Co.	Wheeling
Whitaker Iron Co.	"

SALT

Hartford City Salt Co.	Hartford City
German Salt & Coal Co.	Mason
Hope Salt & Coal Co.	"

STONE, GRANITE, MARBLE AND ONYX

B. S. Beecher	Adri
W. Duggan	Benwood
John Collins	Kanawha City
J. B. Gardner	"
A. G. Morris	Kennysville
H. W. Flagg Estate Mining & Investment Co.	Martinsburg
J. Geener	Salters
Mazdaiah Marble Company of Good	Wheeling
Wheeling Lime & Co.	"
ment Works	"

WISCONSIN

COAL BITUMINOUS

NAME	POSTOFFICE
Jesse Williams	Dodgeville
COLD AND SILVER	
O. P. Rounds & Co.	Belle Centre
Eastern Alaska Mining Co.	"
" Co.	Cumberland
V. Kellogg	"
N. O. Foster	Farechild
Brush Gold & Silver Mining Co.	Marquette
Badger Silver Mining Co.	Milwaukee
Dunbight Gold Mining Co.	"
Fire Center Gold Mining Co.	"
" Co.	"
Hardin Baker Gold Mining Co.	"
Eastern Alaska Mining & Milling Co.	Stevens Point
Security Gold Mining Co.	"
Superior Silver & Refining Co.	Superior
Northern Chief Mining Co.	Wausau

IRON

Columbia Mining Co.	Alma
N. Pabst Iron Mining Co.	Ashland
Ontario Mining Co.	Chadler
Champion Mining Co.	Darlington
Davis Bros.	Dodgeville
Detroit Iron Co.	East Superior
John Hayes	Iron Ridge
Knocky Mining Co.	Marquette
Big Creek Iron Co.	Milwaukee
Arvid Mining Co.	"
Aragon Mining Co.	"
Annoma Mining Co.	"
Bessemer Consolidated Iron Co.	"
Britannia Mining Co.	"
Buffalo Mining Co.	"
Janet Mining & Manufacturing Co.	"
Minerva Iron Co.	"
Morning Mining Co.	"
Perron Mining & Milling Co.	"
Prince of Wales Mining Co.	"
Queen Mining Co.	"
J. S. Schmidt & Co.	"
Shoelden Tunnel & Mining Co.	"
South Buffalo Mining Co.	"
Star Tunnel & Mining Co.	"
Stony Bros.	"
Superior Mining Co.	"
Whitman Steel Mining Co.	"
San Francisco & Hay Tunnel Mining Co.	Oshkosh
Pence Iron Mines	Pence
Tyler's Fork Iron Mines	Phimmer
E. Saphin Mining Co.	Roth
Romania Mining Co.	Shullsburg
Blawieck Ice Iron Co.	Superior
Northern Chief Iron Co.	Wausau
Larkwood Iron Co.	West Superior
The Lehigh Coal & Iron Co.	"

LEAD AND ZINC

J. L. Bishop & Bros.	Bectown
F. Bowdoin & Co.	"
J. Gerard & Co.	"
M. Hendricks & Co.	"
James Hughes & Co.	"
Wm. Hutchcroft & Co.	"
L. McOmell & Co.	"
A. M. McDonald & Son.	"
T. Morrison & Co.	"
J. Smith & Co.	"
L. Sturmer & Co.	"
Warden Bros.	"
John Vase & Co.	"
Nick Bailey & Co.	Dodgeville
High Owens	"
J. P. Smucker	"
D. O. Williams	"
E. W. Williams	"
Henry Williams	"
T. T. Williams	"
R. Kennedy	Highland
Leitch, Lewis & Co.	"
Melanie Bros.	"
Orr & Co.	Joplin
Leadmine	Leadmine
Jos. Fisher & V. %	Laurens
Schmidt Bros.	"

NAME	POSTOFFICE
Wm. James	Linden
Arthur Jewell & Co.	"
T. Kisbury & Co.	"
Samuel Launder & Co.	"
Pollard, Goldschwartz & Co.	"
Rule & Goldsworthy	"
Wm. Stevens & Co.	"
Geo. B. Treglawh & Co.	Meekers Grove
Wm. Barsbeck	"
Donnelly & Bynes	"
Hayes Bros.	"
J. Kane & Co.	"
T. Walton	Midlin
D. Amer	"
W. Grindy	"
J. Hird	"
H. Jinkins	"
J. Jinkins	"
T. Laddell	"
J. Slack	"
J. Viokorman	"
Wann	"
Geo. Whilkson	"
T. Wilkon	"
C. Womig	"
P. Yami	"
J. Young	"
R. Young	"
Young & Schaeckel	Milwaukee
Arthur & Rhik	Mineral Point
L. E. Jackson & Bros.	"
Wm. Perry	"
J. Tony & Lang	"
T. C. Houffarth & Co.	New Diggings
Leary & Co.	"
Raisbeck & Co.	"
W. Redraue & Co.	"
Sam. Frisco De Bornea Mining Co.	Oshkosh
San Mateo Mining Co.	"
N. P. Bailey	Platteville
Dugdale & Bass	"
A. Richter	"
MINERAL PAINT	
Winters Metallic Paint Co.	Iron Mountain
Ricketson Mineral Paint Co.	Milwaukee
Venetian Metallic Paint Co.	North Freedom
STONE, GRANITE, MARBLE AND ONYX	
C. P. Biggs	Alperton
Fred Biesner	Ardena
Leit's Crouch	Baraboo
Bayfield Brown Stone	Bayfield
W. C. Huxley & Co.	Bellevue
Aschbury & Co.	Cedarburg
Wm. Bowen	Chilton
Chas. Paul	Dodgeville
M. Barnett	Duck Creek
P. E. Hardy	Durand
E. H. Emerson	Elna
Emmanuel Burnett	Ft. Howard
Wm. Finnerau	Fox Lake
W. Smith	Green Bay
P. E. Hazen	Houghton
Frederick Brownstone & Co.	Independence
Jesse Kidder	"
A. T. Wickham	"
North Western Iron Co.	Iron Mountain
J. H. Horne	Ironton
Hamilton & Phelps	Kaukauna
Hamilton Lime & Stone	Ketchikan
Quarry Co.	"
S. Sylvester	Lannon
Radford Co.	Marble Head
E. A. Pannack	"
C. Geizer	Mayville
Mayville Lime Works	Mayville
Solin Zeller	Mazo Mine
P. Noolan	Midlin
Alabam Marble Co.	Milwaukee
American Verde Marble Co.	"
Stone Marble Co.	"
T. R. Bentley	"
Cook & Hyde	"
Monarch Stone Quarry Co.	"
Stots Bros.	National Home
Wm. McDonald	New Richmond
Russell Bros.	Platteville
Hecker Bros.	Shoebayn Falls
Kollhagen Bros.	Spring Green
Peter Beaver & Son	Superior
Superior Jasper Co.	Trempealeau
Handfield & Co.	Waukegan
R. N. Roberts	Waukegan

NAME	POSTOFFICE
A. F. & L. Manegold	Wauwatosa
Rapher Co.	"
W. Stoll	Wauwatosa

WYOMING

COAL BITUMINOUS

Lawrence Hollywood	Bonanza
Buffalo Fuel Co.	Buffalo
Diamond Coal Co.	"
W. H. Holland	"
D. C. Hickman	Cokeville
Helman Holman	"
Consolidated Coal Co. of Wyoming	Hams Fork
Hams Fork Coal & Mining Co.	"
Wm. Howell	Indian Kara
Lander Coal Mining Co.	Lander

COPPER

NAME	POSTOFFICE
T. A. Hadsell & Co.	Elk Mountain
Kilpatrick Bros. & Co.	"
Ins.	New Castle
M. Dillon	Rawlins
Sam Fletcher	Rock Springs
J. Ludington	"
Matt Muir	"
Geo. L. Young	"

COLD AND SILVER

White Star Mining Co.	Buffalo
Cheyenne Mining Co.	Cheyenne
Diamond Developing Co.	"
Alfred Vingreist	Elk Mountain
Carbon Investment Co.	"
Mike Hanley	"
J. Herman, Kidd & Langan	"
Geo. Jackson	"
Pete McKay	Hayden
Jack McTurk	"
E. H. Peck	"
L. K. Westfall	"
Black Buttes Mining Co.	Indian Kara

NAME	POSTOFFICE
E. B. Bulkey	Indian Kara
Indian Kara Mining Co.	"
J. D. Russell	"
Harry Turk	Miners Delight
Boy Evans	"
Frank Lemme	"
Mary & Ross	"
Frank Nell	"
D. D. Wolf	"

GYPSUM

Rocky Mountain Plaster	"
Sturco & Mfg. Co.	Leah

IRON

R. C. Mager	Rawlins
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MICA

Chas. Frederick	Cartbanks
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STONE, GRANITE, MARBLE AND ONYX.

Jas. Mills	Alma
R. W. Burkhardt	Laramie
S. W. Thomas	"
Chas. Gould & Son	Piedmont

LIST OF MINING COMPANIES AND OPERATORS

IN THE DOMINION OF CANADA

(SEE ALSO SUPPLEMENTARY LIST)

BRITISH COLUMBIA

COAL BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES, AND SHIPPING POINT	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT
TOWNS AND DISTRICT	
Crows Nest Pass, Victoria Ry. and P. O. Victoria 36, 253, 552.	Crows Nest Coal & Mineral Co., Ltd., Victoria, B. C., 45 Fort St., Col. James Barker, pres.; F. B. Pemberton, secy.; J. D. Pemberton, treas.; Cap. stk. \$2,000,000. Crows Nest.
Nanaimo Vancouver Ry. Departure Bay 552.	East Wellington Coal Co., San Francisco, Cal., U. S. A., 76 and 100 East St. Spots, pres.; W. Whitney, secy.; R. D. Chandler, treas. and mgr.; Cap. stk. \$300,000. East Wellington. Shfts., 30,000 tons; steam. Wm. S. Chandler, supt.

COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES, AND SHIPPING POINT	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT
TOWNS AND DISTRICT	
Tenada New Westminster P. O. Nanaimo Ry. 552.	Tenada Gold & Silver Mining Co., Nanaimo, B. C., P. O. Box 21, 21 W. Station, pres.; Alfred Raper, secy. Thos. Jones, treas.; F. Frost, mgr.; Cap. stk. \$300,000. Northern Sp., copper. Shaft developing.

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES, AND SHIPPING POINT	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT
TOWNS AND DISTRICT	
Andersworth Kootenay W. Ry. 36.	Montreal & Kootenay Mining Co., Ltd., Montreal, Que., 20 St. Francis Xav. of St., E. B. Greenshields, pres.; Gold T. Hopper, secy. and treas.; Richard Lewis, mgr. and supt.; Cap. stk. \$20,000. Ltd. O. Shafter, silver. Shaft, tunnel, 700 tons. hand.
" "	Neosho Mining Co., Seattle, Wash., U. S. A., F. H. Co., pres.; J. P. Taylor, secy.; J. R. Dawson, treas. M. W. Wallace, mgr. and supt.; Cap. stk. \$20,000. Neosho, silver. Shaft. 109. hand developing.
" "	Revelstoke Mining Co., London, Eng., at Lombard St., E. C. J. R. C. Boyle, pres.; W. A. Bailey, secy. and treas.; J. Campbell, mgr. and supt.; Cap. stk. \$200,000. United, silver and lead. Shfts., 600 tons. refractory. steam. No. 1, silver and lead. Tunnels, 200 tons, tree, hand.
Barkerville Cariboo Ry. Ashcroft 36.	Black Jack Quartz Mining Co., Ltd., L. A. Martin, pres. and mgr.; Wm. H. Phelps, secy. and treas.; Cap. stk. \$120,000. Black Jack, gold. Shaft and tunnel. refractory, steam and water.
" "	James Innes, Forest Rose and St. George, gold. Placer, hydraulic.
" "	Slough Creek Mining Co., Tacoma, Wash., U. S. A., Hotel Cafe, W. H. Lee, pres.; J. M. Omerette, treas. C. Ramos, mgr.; Cap. stk. \$500,000. Slough Creek, gold. Shaft and tunnel developing.
" "	Victoria Amalgamated Hydraulic Mining Co., Packerton's, gold. Placer, deep.
" "	Waverly Hydraulic Mining Co., F. B. Mason, pres.; J. Stone, secy. and treas.; J. Pomeroy, mgr. Waverly, gold. Placer, hydraulic.
Clinton Cariboo Ry. Ashcroft 36.	Bonanza Mining Co., F. Bell, secy.; Bonanza, gold. Shafts and tunnel, tree, developing.

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER PORTS AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN	DISTRICT.	
Comox	Vancouver Ry. Nanaimo 253, 552.	E. Priest, Venus, gold. Shaft, free; water (developing).
Fairview	Vale Ry. & P.O. Sicamous 96.	Wide West Mining Co., H. B. Dexter, pres.; F. R. Kline, secy.; M. C. Sharpneck, treas.; H. W. Bowen, mgr. and supt. Wide West, gold and silver. Tunnel and open pit; free; steam; 6 stamps.
Golden	Kootenay (East) Ry. 96.	H. C. Hammett & Co., Toronto, Ont., King st. W. Vermont Discovery, silver and lead. Tunnel (developing). Donald G. Forbes, supt.
"	"	Thunder Hill Mining Co., Ltd., Victoria, B. C., Jewell Block, Douglas st., J. Nicholles, pres.; W. H. Bainbridge, secy. and treas.; James Brady, mgr. and supt. Cap. stk. \$500,000. Thunder Hill, gold, silver and lead. Open pit, 15,000 tons. Steam.
Hixon Creek	Cariboo (P. O. Quesnelle) Ry. Ashcroft 96 (210 m.).	Blue Lead Hydraulic Co., G. B. Clarke, secy. and treas.; James Reid, mgr. Cap. stk. \$100,000. Blue Lead, gold. Placer; hydraulic (developing). Maurice Davis, supt.
"	"	Quesnelle Quartz Mining Co., Ltd., James Reid, pres.; W. A. Johnston, secy. and treas. Cap. stk. \$500,000. Gold and silver. Shaft; free and refractory; steam; 5 stamps.
Hope	Vale Ry. 96.	Shuniah Mining Co., Shuniah, gold and silver. Slope; refractory; water (developing).
Illecillewaet	Kootenay Ry. 96.	Lanark Consolidated Mining & Smelting Co., Victoria, B. C., 48 Langley st., Thos. Earle, pres.; Geo. A. Sargison, secy.; N. P. Snowden, treas. Cap. stk. \$250,000. Lanark and others, silver and lead. Shaft and tunnel; steam, hand (developing).
Keithley Creek	Cariboo Ry. Ashcroft 96.	Hayward Mining Co., G. A. Veitz, secy. and treas.; M. Kerr, mgr. and supt. Cap. stk. \$50,000. Hayward, gold. Placer, hydraulic.
Lillooet	Cariboo Ry. Ashcroft 96 (43 m.).	John Irving & Co., Victoria, B. C., Cap. \$20,000. Victor, gold. Placer; hydraulic. J. N. Jensen, supt.
"	"	Mina Placer Co., J. S. Bell, secy., treas. and supt. W. Duquid, mgr. Mina Placer, gold. Open pit; water (developing).
"	"	Peters & Ward, Gold. Open pit, placer.
"	"	Vancouver Enterprise Mining Co., Ltd., Vancouver, B. C., Capt. Malcolm McLeod, pres.; R. A. Anderson, secy. and treas. Cap. stk. \$25,000. Vancouver Enterprise, gold. Placer, tunnel and shaft; hydraulic.
Nanaimo	Vancouver Ry. 552.	Minerva Mining & Milling Co., Victoria Crescent, B. Raper, pres.; A. Raper, secy. and treas.; E. Priest, mgr. and supt. Eureka, Twin Brothers and Minerva. Open pits and shaft, free and refractory; hand (developing).
"	"	Texada Gold and Silver Mining Co., Victoria Crescent, J. W. Stuton, pres.; Alfred Raper, secy.; T. D. Jones, treas.; E. Priest, mgr. and supt. Cleopatra, gold and silver. Shaft; refractory; hand.
Ososyoos	Vale Ry. Kamloops 96.	International Mining & Milling Co., W. C. Kincaid, pres.; J. C. Kincaid, secy.; B. M. Spinning, treas.; R. A. Brown, mgr. and supt. Cap. stk. \$500,000. Volcanic Mountain, silver and lead. Tunnel; hand.
"	"	Spokane & Great Northern Mining Co., Spokane, Wash., U. S. A., 315 and 319 The Rookery, H. C. Walters, pres.; H. M. Hoyt, secy.; A. B. Keeler, treas.; C. F. Lee, mgr. Cap. stk. \$2,000,000. Gold and silver. Tunnel and shaft, free and refractory. Steam, stamps (developing).
Penttieton	Vale Ry. Sicamous 96.	Okanagan Mining Co., Spallumcheen, B. C., Capt. Shorts, mgr. Cap. stk. \$2,000. Okanagan Mineral Claim, gold and silver. Shaft, tunnel, refractory; hand (developing).
Quesnelle Forks	Cariboo Ry. Ashcroft 96.	South Fork Hydraulic Mining Co., A. C. Knight, secy.; J. K. Barker, mgr. South Fork, gold. Placer; hydraulic (developing).
"	"	Victoria Hydraulic Mining Co., Ltd., Victoria, B. C., 30 Broad st., Wm. Wilson, pres.; W. D. McGregor, secy. and treas.; John Hepburn, mgr. and supt. Cap. stk. \$100,000. Coquette, gold. Placer; water.
Revelstoke-Kootenay	W. Ry. 96.	Thomas Downs, Sardanux Chert, gold. Tunnel; refractory. C. Holten, supt.
"	"	Kootenay Smelting & Trading Syndicate, Ltd., London, Eng., 31 Lombard st., L. R. C. Boyle, pres.; Wm. Bailey, secy.; John Campbell, mgr. and supt. Cap. stk. \$300,000. Silver King, Terrule, Monarch, Emma, Blue Bell and Alice, gold, silver, lead and copper. Tunnels, refractory; steam and hand (developing).
"	"	Ross & McDonald, Gopher, silver and lead. Open pit; free; hand.
"	"	P. M. Walker, Great Northern, silver, lead and copper. Tunnel, refractory (developing). C. Holten, supt.
Stanley	Cariboo (P. O. Van Winkle) Ry. Ashcroft 96 (200 m.).	Albion Mining Co., John Peabodis, secy.; Wm. Wormald, mgr. Albion, gold. Placer; water.
"	"	Chisholm Creek Co., A. Johnstone, secy.; Chisholm Creek, gold. Shaft, water.
"	"	Clark Mining Co., David Allen, pres.; Archibald Johnstone, secy.; John Cameron, mgr. Gold. Shaft; hand (developing).
"	"	Danbar Flat Hydraulic Co., K. L. Lee, mgr. Danbar Flat, gold. Water.
"	"	W. W. Houseman, British Empire, gold. Shaft, water (developing).
"	"	Laura Mineral Co., Archibald Johnstone, secy.; Laura, gold, silver and lead. Shaft, free, hand (developing).
"	"	E. Perkins, Perkins, gold. Tunnel and shaft; refractory and free; hand, arrastre.
"	"	South Wales Lease Co., South Wales, gold. Slope and shaft, deep, water and hand.
"	"	Sunny Point Mining Co., John James, pres.; Louis A. Brady, secy.; A. Johnstone, treas.; G. P. Munroe, mgr. Sunny Point, gold. Shaft, deep, placer, hand.
"	"	Willow Mining Co., Orsiville, B. C., 73 Columbia st., Josiah Rowe, pres.; George Munroe, secy. and treas.; Frank Hout, mgr. Gold. Tunnel, hand.
Texada-New Westminster	(P. O. Nanaimo) Ry. 552.	C. R. Millar, Cap. \$100,000. Nigger Baby, gold. Shaft, refractory and free, water and hand (developing).

GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND DISTRICT		
Tenada, New Westminster (Continued.)		Tenada Gold & Silver Mining Co., P. O. Box 21, J. W. Sturton, pres.; A. Rapier, secy.; Thos. D. Jones, treas.; E. Frost, mgt. and supt. Surprise, Little Gem, gold and silver. Shaft, tunnels, free, hand.
Trail Creek, W. Kootenay Ry. Sprout 96.		Le Roi Mining & Smelting Co., Spokane, Wash., U. S. A., Geo. M. Forster, pres.; E. N. Peyton, secy., J. W. Binkley, treas. Cap. stk. \$2,500,000. Le Roi, gold, copper. Shaft, tunnel, deep.
Vernon Ry. Selkirk 96.	Vale	Main, Hendricks & Wood. Cap. stk. \$5000. Hill Discovery, gold. Flacer, shafts, water. C. C. Mann, supt.
Vale Ry. 96.	Vale	Queen Mining Co., Front st., Bent, Douglas, pres.; Wm. Teague, secy., treas. and mgt. Cap. stk. \$300,000. Queen, gold and silver. Tunnels, 40 tons, refractory. water. Thomas Rablin, supt.
"	"	Lewis, Steiner, New, Whitcomb, Wash., U. S. A., 222 Thirteenth st., Old Sol and Last Chance, gold and platinum. Tunnels developing.

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND DISTRICT		
Kamloops Ry. 96.	Vale	Glen Iron Mining Co., Ltd., J. W. Mackay, pres.; J. Ogden Grahaime, secy. and treas.; F. J. Fulton, mgt. Cap. stk. \$50,000. Glen Iron, bessemer. Slope, 4,500 tons.

LEAD AND ZINC

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND DISTRICT		
Ainsworth, W. Kootenay Ry. 96.		D. W. Clark. Lady of the Lake, lead. Tunnel shaft, hand.
Golden, E. East Kootenay Ry. 96.		Golden Mining & Smelting Co., Ltd., Calgary, N. W. Terr., Canada. H. B. Alexander, pres. and mgt. P. McCarthy, secy. and treas. Cap. stk. \$100,000. Golden, lead and copper, developing.
Hibbald, W. Kootenay Ry. 96.		Boyd & Bain Co., Dunsmuir Mine, lead and copper. Shaft, tunnel, slope, free, hand, developing.

PLATINUM

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, AND NAME OF MINE SUPERINTENDENT.
TOWNS AND DISTRICT		
Granite Creek Ry. 96.	Vale	Enhance Improvement & Hydraulic Co., Ltd., New Westminster, B. C., 9 Sixth st., Jos. C. Armstrong, pres.; Walter J. Walker, secy. and treas.; Wm. G. Thompson, mgt. Cap. stk. \$50,000. Enhance platinum. Flacer, hydraulic, developing. Albert Wells, supt.

QUICKSILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, AND NAME OF MINE SUPERINTENDENT.
TOWNS AND DISTRICT		
Albion Ry. 152	Vancouver	Seahart Quicksilver Mining Co., Victoria, B. C., Yates st., P. Dimpsey, pres.; F. J. Clayton, secy.; A. J. Finnert, treas.; Wm. Wills, mgt. and supt. Cap. stk. \$75,000. Seahart No. 1. Shaft and tunnels water.

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERILLS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND DISTRICT.	
Nanaimo Ry. 552. Vancouver	Minerva Marble Co., Victoria Crescent. B. Raper, pres.; A. Raper, secy. and treas.; E. Priest, mgr. and supt. Minerva, marble. Open pit; hand.
" " "	Raper, Priest & Co., 28 Victoria Crescent. E. Priest, mgr. Cap. \$2,000. Malaspina, red granite. Open pit; hand (developing).
Nelson Island New Westminster Ry. & P.O. Victoria 552.	Nelson Island Granite Co., Ltd., Victoria, B. C. J. C. Precoat, pres. and treas.; E. J. Thain, secy., mgr. and supt. Cap. stk. \$30,000. Nelson Island, gray granite. Open pit; steam (developing).
Samich, New Westminster (P. O. N. Samich) Ry. 552.	Samich Lime Co., Ltd., Victoria, B. C. 127 Yates st. Peter C. Fernie, pres. and supt.; J. Wriglesworth, secy., treas. and mgr. Cap. stk. \$50,000. Samich and Millstream, limestone. Open pit, 2,000 tons; horse and hand; kiln, 2,250 tons.
Vancouver N. Westminster Ry. 96, 572.	Vancouver Stone Quarrying, Mining & Transportation Co., Cordova st. Johann Wulfschuh, pres.; R. B. Johnson, secy. and treas.; J. W. Vaughan, mgr. English Bay, sandstone. Open pit; hand.

SEE ALSO SUPPLEMENTARY LIST

NEW BRUNSWICK

MINERAL PAINT

LOCATION OF MINE, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY	
Newcastle, Northumberland Ry. 325.	John Ferguson. Oxide of iron.

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERILLS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY	
Newcastle, Northumberland Ry. 325.	C. E. Fish. Cap. \$5,000. French Fort, olive sandstone. 4,000 tons; steam. William Sutherland, supt.

SEE ALSO SUPPLEMENTARY LIST

NORTH-WEST TERRITORY

COAL, ANTHRACITE.

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWNS AND DISTRICT	
Anthracite Ry. 96.	Canadian Anthracite Coal Co., Hon. E. G. Thorp, pres't., L. Crandell, sec'y., O. H. Ingram, treas., H. W. McNeill, mgr. and supt., Cap. stk. \$1,000,000. Stewart. Tunnel and slope, steam, breaker.
"	The H. W. McNeill Co., Ltd., H. W. McNeill, pres't., E. L. Rattle, sec'y., Cap. stk. \$500,000. Slopes, 50,000 tons, steam, breaker. Philip Galt, supt.

COAL, BITUMINOUS.

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWNS AND DISTRICT	
Box River Mines (No. P. O.) Ry. 10.	Anthracite & Bituminous Coal Co., Toronto, Ont., 15 Toronto st., E. F. Chapple, pres't., F. A. Fleming, sec'y., S. H. Fleming, treas., Wm. H. Merrill, mgr., Cap. stk. \$500,000. Box River, developing.
Calgary	Golden Mining & Smelting Co. of Canada, Ltd., Gold.
Canmore Ry. 96.	Canmore Northwest Coal & Lumber Syndicate, London, Eng., 24 Clements Lane, L. C., George R. Powell, pres't., J. W. Kinney, sec'y., Chas. Dickinson, mgr. and supt., Cap. stk. \$3,000. Coking, steam, breaker, 1,000 tons, steam.
Lethbridge Ry. 10.	Alberta Railway & Coal Co., Wm. Lethbridge, pres't., H. McRitchie, treas., F. F. Gault, mgr., Shells and tunnels, 1,000 tons, steam. Wm. Stafford, supt.
"	Cowdery Bros., Fort McLeod, Alberta. Shewn. Open pit, 1,000 tons, hand. H. D. Frohman's, supt.
Pincher Creek Ry. Lethbridge 10.	Andrew Christie, Cap. \$2,000. Christie's Mine. Tunnel, 200 tons, hand.
"	Francis Wallock, local. Stand Ry. Tunnel, 200 tons, hand.

GOLD AND SILVER.

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMPS, MILL, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND DISTRICT	
Cluver Bar Ry. Edmonton 96.	Alexander Robertson, Gold. Placer, 100 water claim, hand.
Edmonton Ry. 96.	Donald Ross, Cap. \$25,000. Ross, gold. Placer, 200 tons, hand.
Ft. Saskatchewan Ry. Edmonton 96.	George Bouth, Gold. Placer, hand, horse and water.

STONE, MARBLE, GRANITE AND ONYX.

LOCATION OF MINE, QUARRIES, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMPS, MILL, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND DISTRICT	
Calgary Ry. 96.	Alberta John G. McAllister, Stephen Jay, Cap. \$15,000. Tobacco Quarry, freestone. Open pit, 17,000 tons, steam.

SEE ALSO SUPPLEMENTARY LIST

NOVA SCOTIA

COAL BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Caledonia Mines C. Breton Ry. Little Glace Bay 31.	Caledonia Coal & Railway Co., W. Emery, pres.; Enslace Hubbard, secy.; Daera MacKeen, treas., mgr. and supt. Cap. stk. \$800,000. Caledonia. Shaft, 168,000 tons, steam and compressed air.
Little Glace Bay Ry. 31 Cape Breton	Glace Bay Mining Co., Ltd., Halifax, N. S., Lower Water St., E. P. Archbold, pres.; J. R. Lithgow, secy., treas. and mgr. Cap. stk. \$840,000. Little Glace Bay. Shaft, 120,000 tons, hand. C. H. Rigby, supt.
Malbou Harbor Inverness Ry. 31, 767.	Malbou Coal & Gypsum Co., Ltd., C. L. Snow, pres., mgr. and supt., Lewis McKeen, secy. and treas. Cap. stk. \$30,000. Malbou. Slope, 3,000 tons, water.
Spring Hill Jct. Cumberland Ry. 31, 325.	Cumberland Railway & Coal Co., Montreal, Que., Imperial Bldg., Place d'Armes. R. Cowans, v.-pres.; H. R. Drummond, secy. and treas.; I. R. Cowans, mgr. Spring Hill. Four slopes, 512,300 tons, steam.
Stellarton Ry. Pictou 325.	Acadia Coal Co., Ltd., I. W. Clendenin, pres. and treas., Philip Harris, secy., H. S. Poole, mgr. Cap. stk. \$1,000,000. Slope and open pit, 100,000 tons; steam, 75 coke ovens, 26,000 tons. I. Maxwell, supt.
Sydney Cape Breton Ry. 325.	Gardener Coal Co., John E. Burchell, pres.; J. Sydney Burchell, secy.; James T. Burchell, treas., mgr. and supt. Cap. stk. \$200,000. Gardener. Shaft, 40,000 tons, steam and electricity.
" "	Sydney & Louisburg Coal & Railway Co., Ltd., C. S. Kerfoe, secy. and treas., D. J. Kennedy, mgr. and supt. Cap. stk. \$1,500,000. Reserve. Slope and shaft, 170,000 tons, compressed air and steam.
Thorburn Ry. 325.	Acadia Coal Co., Ltd., Stellarton, N. S., I. W. Clendenin, pres. and treas., Philip Harris, secy., H. S. Poole, mgr. Cap. stk. \$1,000,000. Slope and open pit, 100,000 tons, steam. I. Dunbar, supt.
Truro Colchester Ry. 325 (6 miles).	Truro Coal Mining Co., P. O. Box 523, William Hallett, pres.; George Ross, secy. and mgr.; T. G. McMullin, treas. Cap. stk. \$40,000. Truro. Slope, steam (developing.)
Westville Pictou Ry. 325.	Acadia Coal Co., Ltd., Stellarton, N. S., I. W. Clendenin, pres. and treas., Philip Harris, secy., H. S. Poole, mgr. Cap. stk. \$1,000,000. Slope and open pit, 100,000 tons, steam. I. W. Sutherland, supt.
" "	Intercolonial Coal Mining Co., Ltd., Montreal, Que., 100 Commissioners St., James P. Cleghorn, pres.; William J. Nelson, secy. and treas.; Charles Ferrie, mgr. and supt. Cap. stk. \$1,000,000. Drummond. Slopes, 100,000 tons, steam, 20 coke ovens, 6,000 tons.

COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Sydney Cape Breton Ry. North-West Arm Sydney Harbor 31	Eastern Development Co., Ltd., Boston, Mass., 53 State St., Isaac P. Gregg, pres. and mgr.; Thomas Muir, secy. and treas. Cap. stk. \$3,500,000. Coxheath. Shaft, 60,000 tons, steam and compressed air. Brownell Granger, supt.

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Country Harbor Guysborough (P. O. Cross Roads, Country Harbor) Ry. Halifax 31	Country Harbor Gold Mining Co., Ltd., St. John's, N. B., P. O. Box 132, Robert Bell, pres.; J. Gordon Forbes, secy. and treas.; George McNaughton, mgr. and supt. Cap. stk. \$80,000. McNaughton Bell. gold. Shaft and tunnel, 13,500 tons, free, 20 stamps.
Fifteen-Mile Stream Ry. Hopewell 325.	New Egerton Mining Co., New Glasgow, N. S., James D. McGregor, pres., secy. and treas.; James A. Fraser, mgr. and supt. Cap. stk. \$40,000. New Egerton, gold. Shafts and tunnels, 4,500 tons, free; steam, 10 stamps.
Goldeneye Guysborough Ry. Antigonish 325.	C. B. Berensford, Sherbrooke, N. S., Bee, Strickle, Domingues, gold. 400 tons, free, horse, 15 stamps.
" (13 miles).	Malcolm Cameron, Wellington, Palmerston and Grape Vine, gold. Shafts and tunnels, free, steam and water, 10 stamps.
Isaac's Harbor Guysborough Ry. 31	Palgrave Gold Mining Co., Portland, Me., Exchange St., H. K. Fisher, pres. and mgr.; W. H. Harrington, secy.; T. R. Gage, treas. Cap. stk. \$100,000. Palgrave, gold. Shafts and tunnels, 2,400 tons, free; steam, 10 stamps.
Kemptville Yarmouth Ry. Yarmouth 31.	Kempt Gold Mining Co., Ltd., Yarmouth, N. S., Jacob Bingley, pres.; A. W. Finkins, secy. and treas.; W. H. Nash, mgr. and supt. Cap. stk. \$30,000. Kempt, gold. Shaft, 500 tons, free, steam, 10 stamps.
Malagut Mines Green S Ry. Bridgewater 325 (26 miles).	Boston Gold Mining Co., Geo. A. Kimball, pres.; R. F. Whittemore, secy. and treas.; F. K. Ballou, mgr. and supt. Cap. stk. \$200,000. Boston, gold. Tunnel, slope and deep, 3,500 tons, free, steam, 10 stamps.
Mooseland Halifax Ry. Spuy Bay 31	Mooseland Gold Mining Co., Ltd., Halifax, N. S., 72 Bedford Row, W. J. Stewart, pres.; W. C. Bishop, secy.; Thos. Brown, treas.; Henry G. Stenishorn, mgr. and supt. Cap. stk. \$100,000. Mooseland, gold. Free, steam, 24 stamps (developing).

GOLD AND SILVER—CONTINUED.

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Moose River Gold Mines Halifax Ry., Shubenacadie 325 (30 miles).			Damos Tonquoy. Cap. \$40,000. Tonquoy, gold. 19 shafts, slopes, 5,000 tons. free, water and steam. 15 stamps.	
Mount Unacke Ry. 325.		Hants	Withrow Gold Mining Co., John J. Withrow, pres., and supt., F. P. Putnam, secy., treas. and mgr. Cap. stk. \$7,000. Withrow, gold. Slope, 500 tons. free, steam, 10 stamps.	
Oldham Ry. Enfield 325 (3 miles).		Hants	Naper Mining Co., Wm. J. Fraser, pres., John F. Hardman, secy., treas. and mgr. Cap. stk. \$120,000. Naper, gold. Free and retractory, steam. Wm. Mackintosh, supt.	
"	"	"	Oldham Gold Co., John F. Hardman, mgr. Cap. \$20,000. Baker, gold. 7,000 tons. free and retractory, steam and water. 10 stamps. Wm. Mackintosh, supt.	
"	"	"	Pleasant Hill Gold Mining Co. Pleasant Hill, gold. Free. J. F. Vandergrift, supt.	
"	"	"	Rhode Island Mining Co., Providence, R. I., 18 Westminster St., Room 47. C. R. Day, treas., Norman Logan, mgr. and supt. Donaldson, gold. Shaft, horse developing.	
"	"	"	Standard Gold Co., J. E. Hardman, mgr. Cap. stk. \$50,000. Gold. Steam. Wm. Mackintosh, supt.	
Rawdon Ry. Mt. Unacke 323.		Hants	Central Rawdon Mining Co., Ltd., Windsor, N. S., Joshua H. Smith, pres., J. C. Goldat, secy., Clarence H. Dimock, treas., T. R. Ross, mgr. Cap. stk. \$120,000. Combination, gold. 15 stamps.	
Salmon River Ry. 322.		Halifax	Dufferin Gold Mining Co., Ltd., Toronto, N. S., A. K. Archibald, pres., mgr. and supt., S. R. Tupper, secy., and treas. Cap. stk. \$30,000. Dufferin, gold. Shafts, tunnels and slopes, 12,000 tons. free, water, 20 stamps.	
Seal Harbor Guysborough Ry. and P. O. Ismael's Harbor 31			McNaughton Gold Mining Co., St. Johns, N. B., P. O. Box 132. Alfred C. Blant, pres., J. Gordon Forbes, secy. and treas., Robert McNaughton, mgr. Cap. stk. \$20,000. Seal Harbor, gold. Shaft and tunnel, 10,000 tons. free, steam, 15 stamps.	
"	"	"	McNaughton Gold Mining Co., Ltd., St. Johns, N. B., P. O. Box 132. A. Chelton Blant, pres., J. Gordon Forbes, secy. and treas., Robert McNaughton, mgr. and supt. Cap. stk. \$20,000. McNaughton, gold. Shaft and tunnel, 9,000 tons. free, steam, 15 stamps.	
Upper Musquodochuit Ry. Shubenacadie 325 (3.5 miles).		Halifax	Dixon & Co., Halifax, N. S., Robert Dixon, mgr. and supt. Dixon, gold. Shaft, 1,200 tons. free, steam, 5 stamps.	
Waverley Ry. Windsor Junction 325 (2 miles).		Halifax	Lake View Mining Co., Ltd., Newack, N. J., 189 Market St., T. R. Allen, pres., William F. Allen, secy. and treas., A. V. Hayward, mgr. and supt. Cap. stk. \$50,000. Lake View, gold. Deep, 10,000 tons. free, steam, 30 stamps.	
"	"	"	West Waverley Gold Co., Ltd., James C. Ayer, pres., F. L. Newcombe, secy., John F. Hardman, treas. and mgr. Cap. stk. \$30,000. West Waverley, gold. 15,000 tons. free, steam, 10 stamps. Richard F. Sherman, supt.	
"	"	"	R. C. Wilson, Halifax, N. S., P. O. Box 520. Cap. \$75,000. East Waverley, gold. Tunnel and melting, 10,000 tons. free, steam and water. James Watson, supt.	
Whiteburn Mines Queen's Ry. New Germany 532 (30 miles).			John Coleman, G. J. Farrington, mgr. and supt. Whiteburn, gold. Shaft, free, steam, 10 stamps (developing).	
Wine Harbor Guysboro Ry. Antigonish 325			H. I. Harding, Toronto, N. S., T. Canory, mgr. and supt. Cap. \$10,000. Naper and Eldorado, gold. Shaft and tunnel, 5,000 tons. free, steam, 15 stamps.	

GYPSUM.

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWNS	AND	COUNTY		
Malton Harbor, Inverness Ry. 31, 597.			Malton Coal & Gypsum Co., Ltd., C. L. Snow, pres., mgr. and supt. Lewis McKee, secy. and treas. Cap. stk. \$50,000. Converter. Open pit, 5,000 tons. steam, mill, 4,000 tons.	
Port Bevis P. O. Baddeck Ry. 31		Victoria	Victoria Gypsum Mining & Manufacturing Co., Ltd., Hon. Duncan Fraser, pres., H. Percy Barr, chd., secy. and treas., W. P. McCurdy, mgr. and supt. Cap. stk. \$100,000. Victoria. Open pit, 15,000 tons. steam.	
Windsor Ry. 701		Hants	Wentworth Gypsum Co., Ltd., T. B. King, pres., F. Norman Dimock, secy., Clarence H. Dimock, treas. and mgr. Cap. stk. \$200,000. Wentworth. Open pit, 25,000 tons. steam. John Phillis, supt.	

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN AND COUNTY.		
Acadia Mines, Colchester Ry. Londonderry Sta. 325.	Londonderry Iron Co., Montreal, Que. A. T. Patterson, pres.; Jas. Flynn, secy.; F. C. Budden, treas.; R. G. Leckie, mgt. Cap. \$1,000,000. East and West hematite and limonite. Shaft, 70,000 tons; steam. R. Boutilier and F. Park, supts.	
Bridgeville, Pictou Ry. 325.	Pictou Charcoal Iron Co., Ltd., New Glasgow, N. S. W. B. Moore, pres.; D. R. Grant, secy. and treas.; E. A. Sjöstedt, mgt. and supt. Cap. \$1,000,000. Grant, brown hematite. Tunnel, 10,000 tons; steam and hand; furnace, 7,000 tons.	
Ferron, Pictou P. O. and Ry. New Glasgow 325.	New Glasgow Iron, Coal & Railway Co. John F. Stairs, pres.; Harvey Graham, secy.; Thomas Green, treas. Cap. \$1,000,000. East River, brown and red hematite. Slope, 2 shafts, open pit; steam; furnace, 30,000 tons developing.	
Torbrook, Annapolis Ry. 325.	Torbrook Iron Co., Ltd. Hon. Senator MacFarland, pres.; Geo. De Blois, secy. and treas.; R. G. E. Leckie, mgt. Cap. \$1,000,000. Torbrook, red hematite. 4 shafts, 35,000 tons; steam. R. Solomon, supt.	

MANGANESE

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN AND COUNTY.		
Tenacepe, Hants Ry. 31.	Shaw & Churchill Co., Walton, N. S. Tenacepe. Shaft, tunnel and open pit, 250 tons. steam. D. W. Mc- Viehl, supt.	

LEAD AND ZINC

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN AND COUNTY.		
Halfway Brook, Colchester Ry. Brookfield 325.	Clarke & Johnson, Halifax, N. S. Joe Howe, lead. Shaft, steam.	
Smithfield, Guysboro Ry. Halfway Brook 325 (4 miles).	Clark & Fraser, Halifax, N. S. 161 Hollis St. Smithfield Silver Lode, lead. 3 shafts, refractory, steam.	

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN AND COUNTY.		
Brookfield, Colchester Ry. 325.	Londonderry Iron Co., Montreal, Que. A. T. Patterson, pres.; Jas. Flynn, secy.; F. C. Budden, treas.; R. G. Leckie, mgt. Cap. \$1,000,000. Limestone, 11,000 tons, steam. F. Park, supt.	
Lower Cove, Cumberland Ry. 330	Atlantic Stone Co., Boston, Mass. 474 Atlantic av. Amos Scamman, pres.; E. Q. Rowan, secy. and treas.; R. S. Hubbard, mgt. and supt. Cap. \$1,000,000. Lower Cove, sandstone. Open pit, 5,000 tons; steam; mill.	
Marble Mountain, Ry. 31.	Bras d'Or Lime Co., Ltd., Halifax, N. S., 161 Hollis St. C. F. Fraser, pres.; A. McIn Fraser, secy. and treas.; D. MacLachlan, mgt. and supt. Cap. \$1,000,000. Limestone. Open pits, 10,000 tons; steam, 3 kilns, 5,000 tons.	
" "	Bras d'Or Marble Co., Ltd., Halifax, N. S., 161 Hollis St. C. F. Fraser, pres.; A. McIn Fraser, secy. and treas.; D. MacLachlan, mgt. and supt. Cap. \$1,000,000. Bras d'Or, marble. Open pit, steam and gravity, mill developing.	
Springville, Ry. 325.	New Glasgow Iron & Coal Co., New Glasgow, N. S. D. R. Grant, secy. E. A. Sjöstedt, mgt. Cap. \$1,000,000. McLennan's, limestone. Open pit, 450 tons, hand, kiln, 50 tons. S. H. McLennan, supt.	

SEE ALSO SUPPLEMENTARY LIST

GOLD AND SILVER—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.		
TOWN	AND	COUNTY			
Malone Ry. 119.		Hastings	Crescent Gold Mining Co., Ltd., Montreal, Que., Room 12, 30 St. John st., P. Alex. Peterson, pres.; Thomas Watson, secy. and treas.; George McDougall, mgr. and supt. Cap. stk. \$100,000. Crescent, gold. Shaft; free, steam, 10 stamps developing.		
Port Arthur Ry. 96, 386.		Algoma	Lily of the Valley Mining Co., J. Brinson, secy., W. J. Barre, treas.; H. Parsons, mgr. and supt. Lily of the Valley, silver. 2 shafts; free; hand.		
"		"	Y-one Mining Co., Chicago, Ill., 114 Adams st., J. S. Morgan, pres. and mgr.; H. S. Sprague, secy., John F. Huntington, treas. Cap. stk. \$5,000,000. Y-one, silver. Shafts and tunnel, free.		
Rat Portage Ry. 96.		Algoma	Rad Mining Co., P. O. Box 11. Rad, silver. Free (developing).		
"		"	Alex. Matheson. The Premier, gold. Shaft; free; horse and hand.		
"		"	C. S. Morris, Toronto, Ont., 119 Wellesley st., A. 90 and Rossland, gold. Free and refractory (developing).		
Silver Islet (No P. O.) Ry. 386.		Algoma	Canada Land Purchase, Detroit, Mich., 80 Griswold st., John J. Marvin, Henry S. Sibley, trustees. First certificates \$100,000. Silver Islet, silver. Shaft, free; steam, 50 stamps. Capt. T. H. Trefloway, supt.		
Silver Mountain Ry. 355a.		Algoma	E. F. Drake Estate, St. Paul, Minn., 2d Drake Block, Third st., A. M. Drake, mgr. West End, silver. Shaft and tunnel; steam and hand. Wm. Rapsey, supt.		
"		"	Guaranty Silver Mining Co., Minneapolis, Minn., 816 Elwood av., A. C. Dunn, pres.; John G. Rickel, secy. and treas., A. D. Wesley, mgr. and supt. Cap. stk. \$500,000. Guaranty, silver. Shaft, free; steam (developing).		
"		"	Shumak Weachin Mine Co., Ltd., Liverpool, Eng., Dale st., Frank Tobin, pres.; V. K. Fry, secy. and treas., Arthur L. McEwen, mgr. and supt. Cap. stk. \$500,000. Shumak Weachin, silver. Shaft and drifts, refractory; steam, 10 stamps.		
Strange P. O. and Ry. Silver Mountain 355a.		Algoma	Silver Chief Mining Co., Minneapolis, Minn., 291 N. A. Life Bldg., Frank E. Mix, pres., F. M. Hutchinson, secy., Chas. L. Mendel, treas., R. F. Moore, mgr. Cap. stk. \$500,000. Silver Chief, silver. Shaft; free.		
"		"	Silver Lake Mining Co., Duluth, Minn., 5 E. Third st., H. R. Tinkham, pres., E. Tinkham, secy.; J. H. Hyber, treas., A. D. Cummings, mgr. Cap. stk. \$2,000,000. Silver Lake, silver and iron. Shaft; free; hand.		
Wabigoon (P. O. Barclay) Ry. 96.		Algoma	Minnesota & Lake Manitowish & Silver Mining Co., Benson, Minn., Thomas Knudson, pres.; Anton Aronson, secy., Peter J. Johnson, treas., George Camden, mgr. Cap. stk. \$20,000. Gold and silver. Tunnel, 3,000 tons, refractory. Furnace, bedrock, supt.		
"		Algoma P. O. and Ry. Sudbury 96.	Gold Rock Mining & Milling Co., Ltd., Toronto, Ont., James Beatty, v.-pres.; Jos. J. Davis, secy.; Union Bank, treas., Nowhen & Townsend, mgrs. Cap. stk. \$100,000. Gold Rock and Rabbit Island, gold and lead. Free (developing). E. S. Townsend, supt.		

GIPSUM

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.		
TOWN	AND	COUNTY			
Cayuga Ry. 296.		Haliburton	Adamant Manufacturing Co. of Montreal, St. Louis, N. Y., 300 E. Genesee st., F. W. Parmelee, pres., S. S. Ruston, secy., C. T. Rockway, treas., W. R. Cherry, mgr. Cap. stk. \$500,000. Adamant. Drift; steam, mill, J. A. Nellis, supt.		
Manchester Ry. 299		Ontario	Ezra Grinnell, Port Gibson, N. Y. Cap. \$1,000. Port Gibson. Open pit, 500 tons, water.		
Paris Ry. 290		Brant	Alabaster Co., Ltd., M. R. Church, pres.; J. M. Wheeler, secy., treas. and mgr. Cap. stk. \$84,000. Paris Plaster. Tunnel, 1,000 tons, hand.		
Thorold Ry. 290.		Welland	Estate of John Battle. Tunnel and open pit, 4,000 tons, water, cement mill, capacity 7,200 tons. Matthew Battle, supt.		

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.		
TOWN	AND	COUNTY			
Bedford Mills, Bedford Sta. 368.		Frontenac	Bedford Mining Co., Kingston, Ont., R. J. Cartwright, pres., Joseph Bayden, secy. and mgr., J. B. McEwen, treas. Cap. stk. \$250,000. Black Lake, Lehman, magnetic. 500 tons.		
Catton Place Ry. 368.		Lambton	William H. Wylie, Flora st., Iron Duke, Bessemer. Open pits, hand.		
Du River La Seine (Randy River District (No P. O.) Ry. Duith, Minn. 96)			Atikokan Mining Co., Duluth, Minn., Room 303 Burrows Block. Cap. stk. \$250,000. Atikokan, brown hematite. Tunnel (developing).		
Port William West Ry. 96.		Algoma	Matthew Iron & Mining Co., Kingston, Ont. B. W. Folger, pres., Henry M. Folger, treas., James Hammond, mgr. and supt. Cap. stk. \$100,000. Matthew Iron Range, hematite.		

IRON—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Iron Dale, Ry. 290, 331.		Victoria	Baneroff Iron Co., Ltd. Chas. J. Pusey, pres.; L. B. Howland, secy. and treas.; Chas. Hutchinson m. mgr. Cap. stk. \$1,000,000. Several claims, magnetic and hematite. Horse.	
"		"	T. D. Ledyard, Toronto, Ont., 57 Colborne st. Snowden, bessemer. Shaft and open pits. Wm. Nichol, supt.	
Kaministiquia Ry. 96.		Algoma	Kaministiquia Iron Co., Minneapolis, Minn. H. S. Smith, pres. Clinton Stacy, secy.; G. A. Castle, treas.; S. H. Hall, mgr. Cap. stk. \$100,000.	
Marks P. O. and Ry. Port Arthur 96, 35a.		Algoma	Robert G. Chandler, trustee, Coldwater, Mich. Bessemer, magnetite. Shaft, hand.	
Tatlock Ry. Clyde Forks 368.		Lanark	Wyhe, Weekes & Co., Carleton Place, Ont. White Birch, pyrites. Shaft; horse. Henry Mcadden, supt.	
White Ry. Flower Sta. 368.		Lanark	William H. Wyhe, Carleton Place, Ont. La Consue, magnetic. Open pit, water.	
Peterboro P. O. and Ry. Marjora 290.		Peterboro	Belmont Bessemer Ore Co., Ltd., New York City, 29 Broadway. James M. Ashley m. pres.; John F. Sullivan, pres.; Robt. L. Major, secy. and gen. mgr.; Wm. A. Kissam, treas. Cap. stk. \$200,000. Belmont, bessemer and magnetic. Shaft, 35,000 tons. Steam. G. L. Woodworth, supt.	

LEAD AND ZINC

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Carleton Place Ry. 96.		Lanark	Wyhe & Cram. Lynch, lead. Open pits.	
Landsdowne Ry. 290.		Leeds	H. E. Barker & Co., Landhurst, Ont. Landhurst, lead. Shafts and tunnel; horse and hand, smelter, 900 tons.	

MICA

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Kingston Ry. 290.		Frontenac	Gould Lake Mining Co., Belleville, Ont. Dr. John Grant, pres. and mgr. A. Melachuk, secy. and treas. Cap. stk. \$200,000. Gould Lake. Shaft, 15 tons. Horse.	
Loughboro P. O. and Ry. Arnprior 96.		Frontenac	Bell, Wyhe & Co. W. H. Wyhe, secy. W. Mcadden, mgr. Cap. stk. \$100,000. Black Lake. Open pit and shaft, 2,000 tons. Hand.	
Miller Exp. P. O. and Ry. Perth 96.		Frontenac	C. A. Matheson. Landrie. Open pit, developing.	
North Burgess P. O. and Ry. Perth 96.		Lanark	McMartin & Lee. Open pits. D. G. McMartin, supt.	
"		"	Ogle Cass. Cap. \$5,000. Mica. Open pit, 30 tons. Hand.	
Sydenham Ry. 290.		Addington	Fred Foxton. Cap. \$100,000. Shaft. Steam. James Foxton, supt.	
Frontenac P. O. Perth Road Ry. Halloway-Smith 96.		Frontenac	Bell, Wyhe & Co., Carleton Place, Ont. Wm. H. Wyhe, mgr. Ross Ford. Shaft, hand. Henry Mcadden, supt.	

NICKEL

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Bleazard Exp. P. O. & Ry. Sudbury 96.		Nipissing	Saint Nicholas Nickel Mining Co., Toronto, Ont. Cap. stk. \$50,000. Bleazard and Salford. Copper. Shafts, 2,000 tons. Hand and steam, smelter. Andrew Waddell, supt.	
Carleton Place Ry. 368.		Lanark	Wyhe & Weekes. Moohan, nickel. Open pit.	
Graham P. O. & Ry. Whitefish 96.		Algoma	F. Summerby. Nickel and copper. Shaft.	
Little Current Ry. 96.		Algoma	Master Lode Nickel Co., Duluth, Minn. A. M. Stearns, pres.; F. A. Fenton, secy.; Geo. A. Elder, treas.; W. C. Dresser, mgr. Cap. stk. \$1,000,000. Wallace, nickel and copper. Open pits.	

NICKEL—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.		
TOWNS	AND	COUNTY			
Nelsonville	Algoma	Algoma	Nickel Co., Chicago, Ill., 524 Home Insurance Bldg., John Cudahy, pres.; E. C. Modenville, secy., S. P. Paruly, treas.; John C. Jackson, mgr. and supt. Cap. stk. \$250,000. Lorne, nickel and copper. Shaft; hand (developing).		
"	"	"	Commercial Mining Co., Ltd., Toronto, Ont., 106 King st. W., Arthur H. Helyard, pres.; Herbert A. Helyard, secy. and treas.; Robert H. Ahn, mgr. and supt. Cap. stk. \$100,000. Star of the West. Shaft; hand.		
Nickel City	Algoma	Barnet, Russell & Co., Renfrew, Ont.	Nickel City. Shaft (developing).		
Straight Lake	Algoma	Craig Syndicate, Toronto, Ont., 9 Toronto st. G. H. Watson, pres.; James Todhunter, secy.; W. J. McWhinney, treas.; George Wallace, mgr. Cap. stk. \$50,000. Craig, nickel and copper. Shaft and open pit, 15,000 tons, steam, furnace.			
"	"	"	Straight Lake Nickel Mining Co., Ltd., Toronto, Ont., 15 King st. W. B. Barclay McMurich, pres.; Harry Vigeon, secy. and treas.; J. R. Gordon, mgr. Cap. stk. \$200,000. Straight Lake, nickel. Open pit, 30,000 tons, steam.		
Sudbury	Algoma	Bonanza Nickel Mining Co., Toronto, Ont., 201 Yonge st. J. G. Rimer, pres. and treas.; Geo. B. Foster, secy. Cap. stk. \$150,000. Bonanza, nickel, platinum and copper (developing).			
"	"	"	Commercial Mining Co., Ltd., Toronto, Ont., 106 King st. W. A. H. Helyard, pres.; H. A. Helyard, secy. and treas.; John Danto, mgr. Cap. stk. \$20,000. Commercial, nickel. Shaft and tunnel; electricity.		
"	"	"	E. H. Davis, Montreal, Que. E. S. Townsend, mgr. Batrice, nickel and copper. Shaft; hand (developing).		
"	"	"	Emens Metal Co., Johnstown, Pa. Gerstonte, nickel. Shaft and open pit; hand (developing). R. H. Ahn, supt.		
"	"	"	H. H. Vivian & Co., Ltd. London, Eng., 9 Queen st. place, E. C. H. Hussey Vivian, pres.; Robert Sidgley, secy., A. S. Merry, mgr. Murray, nickel and copper. Shaft, 12,000 tons, steam; furnace. G. Norman Henriksen, supt.		
Widnapiatac	Nipissing	Malcolm McPhee, Pembroke, Ont.	McPhee, nickel, copper and gold. Open pit.		
"	"	"	Ontario Nickel Mountain Mining Co., Ltd., Toronto, Ont., 88 Elliott st. J. Knox Leslie, pres.; G. S. Macdonald, secy. and treas. Cap. stk. \$500,000. Nickel, lead and gold. Shaft (developing).		
Winchish	Algoma	Barnet & Russell, Renfrew, Ont.	Cap. \$25,000. Homestead. Shaft; hand (developing).		
"	"	"	Drury Nickel Co., Ltd. A. P. Travers, pres.; Thos. L. Nelson, secy.; H. R. Valpey, treas.; Thos. Travers, mgr. and supt. Cap. stk. \$50,000. Inez. Open pit, steam, water jacket.		
"	"	"	Nickel Belt Mining Co., Ltd., Toronto, Ont., 114 King st. E. John Jones, pres.; H. C. Secord, secy. and treas. Cap. stk. \$75,000. Empire. Shaft (developing).		
"	"	"	Vermilion Mining Co., Cleveland, Ohio. Stevenson Burke, pres.; H. P. McIntosh, secy. and treas. Vermilion, nickel and copper. Horse.		
Woolthlington	Algoma	Domion Mineral Co., Sudbury, Ont.	John McIntyre, pres.; H. Cuth, secy.; F. L. Shaw, treas.; J. Cameron, mgr. and supt. Shaft, open pit, steam, furnace.		
"	"	"	South Ste. Marie Nickel Mining Agency Co., Ltd., South Ste. Marie, Ont. John McKay, pres.; D. M. Brodie, secy.; John Dawson, treas.; J. B. Miller, mgr. Cap. stk. \$15,000. McKay. Open pit.		

PHOSPHATE

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.		
TOWNS	AND	COUNTY			
Burgess Fwp.	Lanark	G. Whitley. Black Lake, phosphate and men. Open pits, 681 tons, hand.			
Kingston	Kingston	Goold Lake Mining Co., Belleville, Ont. Dr. John Grant, pres. and mgr.; A. McLaughlin, secy. and treas. Cap. stk. \$200,000. Goold Lake. Tunnel, 15 tons, horse.			
"	"	"	N. W. Richardson, Lohoro Lake. Shaft, 750 tons, steam and hand.		
Lake Opinicon	Frontenac	Bell & Co., Amnpor, Ont. Cap. \$30,000. Bell, shaft, slopes, 2,000 tons, steam. N. Cochran, supt.			
"	"	"	Kingston Phosphate Co., Montreal, Que. Rock Lake. Shaft, 2,000 tons; steam. Chas. A. Paine, supt.		
"	"	"	Louise & Bell, Amnpor, Ont. Niel Cochran, mgr. and supt. Cap. \$40,000. Bell. Shaft, 2,000 tons, steam.		
North Burgess	Lanark	Anglo-Canadian Phosphate Co., Ltd., London, Eng., 2 Grace Church st. E. C. J. J. Reid, pres.; G. D. Jennings, secy.; Robert C. Adams, mgr. Cap. stk. \$500,000. Ooty Lake, Robs Lake, Battle Lake and 7 others, phosphate, men. Shaft and open pit, 1,000 tons, horse and hand. Robert Cordell, supt.			
N. Burgess Fwp.	Lanark	Ooty Lake. Cap. \$5,000. Standard, phosphate. Open pit, 200 tons, hand.			
"	"	"	"		
Sydenham	Addington	Fred Foxton. Cap. \$100,000. Shaft, 500 tons, steam. James Foxton, supt.			
"	"	"	J. J. R. Stirling, Kingston, Ont. Cap. \$10,000. Stirling, phosphate and men. Shaft and drift, horse, hand and steam.		

SALT

TOWNS AND COUNTY	LOCATION OF MINE OR WELL, OR RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT	
Clinton Ry., 290.	Huron	John McGalvey. Cap. \$15,000. Clinton Salt Works, fine and coarse. Well, 25,000 brls.; steam. James Shepherd, supt.	
"	"	Henry Rainford. Stapleton Salt Works, fine and coarse. Well, 40,000 brls.; steam.	
Goderich Ry., 290, 379.	Huron	Joseph Kibbel. Cap. \$10,000. Dominion Salt Works, dairy, table, fine and coarse. Wells, 30,000 brls.; steam.	
"	"	Peter McEwan. Cap. \$20,000. Goderich Salt Works, dairy, table and common. Well, 20,000 brls.; steam.	
"	"	Ogilvies & Hutchinson. M. Hutchinson, mgr. Coarse. Well, 800 tons; steam.	
"	"	John S. Platt. Cap. \$12,000. Matland Salt Works, dairy, fine and coarse. Well, 15,000 brls.; steam and water.	
Warwick Ry., Kingscourt 290, 365, 369.	Lambton	Earlton Salt Works Co., Ltd. C. A. Morris, pres.; T. G. Morris, secy., treas. and mgr. Cap. \$10,000. Earlton, dairy, coarse. Wells, 12,000 brls.; steam.	

STONE, MARBLE, GRANITE AND ONYX

TOWNS AND COUNTY.	LOCATION OF MINE OR QUARRY, OR RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILL, DIMENSIONS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT	
Arnprior Ry., 96.	Renfrew	John G. Watson. Cap. \$1,000. Ottawa Grand, marble and limestone. Steam mill.	
Beausville Ry., 290.	Lincoln	William Gibson. Beausville, limestone. 65,000 tons; steam mill. John E. Jones, supt.	
Carleton Place Ry., 96.	Lamark	Daniel R. McNeely. Union. Open pit; hand and horse.	
Cayuga Ry., 40, 290.	Haldimand	Reid Gibson. Cap. \$1,000. Gibson, limestone. Open pit; hand.	
Credit Forks Ry., 96.	Cardwell	Carroll Wick & Co., Toronto, Ont. St. Adelaide st. W. Cap. \$200,000. River and gray sandstone. Limestone, 10,000 tons; steam and horse mill.	
"	"	Credit Valley Quarries Co., Ltd., Toronto, Ont. St. Bay st. A. Myers, pres.; mgr. and supt. Chas. Elliott secy. and treas. Cap. \$185,000. Credit Valley, gray and brown sandstone. Open pits, 15,000 tons; steam, mill.	
"	"	Scott, Pattullo & Co., Orangeville, Ont. Cap. \$75,000. No. 1 Credit Forks, brown sandstone. Tunnel, 16,000 tons; steam. Herman Pattullo, supt.	
Cromarty Ry., Dublin 290.	Perth	Anthony Allen, local. Cap. \$8,000. Cromarty, limestone. Open pit, 200 tons; hand.	
Elmsly Twp. P. O. and Ry., Perth 96.	Lamark	John Arthur. Limestone.	
Grimshy Ry., 381.	Wentworth	Grimshy Quarry Co., Ltd. S. Webster, pres.; F. F. Webster, secy. and treas.; J. F. Webster, mgr. and supt. Cap. \$10,000. Gray and brown sandstone. Slope, 1,000 tons; horse, hand and steam.	
Inglewood Ry., 96, 290.	Cardwell	Brinford & Charlton, Toronto, Ont. Cap. \$5,000. Inglewood, fire stone. Slope; horse.	
"	"	Charlton & Co., Toronto, Ont., 117, Yonge st. Cap. \$18,000. Gray sandstone. Open pit, 4,000 tons; horse and hand. Anthony Charlton, supt.	
"	"	David Graham. Cap. \$10,000. Sandstone. Open pit, 4,500 tons; hand. Donald S. Gault, supt.	
"	"	Thomas Murray. Cap. \$10,000. Inglewood, fire stone. Slope, 1,000.	
"	"	William Smeaton. Cap. \$20,000. Credit Valley, brown and gray sandstone. Open pit, 4,500 tons; steam and horse.	
"	"	William Wilson. Sharp's, sandstone, rubble. Open pit, 400 tons; horse mill.	
Lincolnhurst Ry., 290.	Haltou	Alexander Garry. Cap. \$1,000. Chantry, gray sandstone. Slope, 1,000 tons; hand; stone mill.	
"	"	Toronto Limestone Co., Ltd., 118 Eglamade st. Thos. Goss, pres.; W. L. Scott, secy. and treas. Cap. \$10,000. Limestone. Kilm, 2,000 tons.	
Madoc Ry., 290.	Hastings	J. Brodigan & Co., Victoria, limestone. Open pit, 45 tons; steam. W. P. Kerr, supt.	
Milton Ry., 96, 290.	Haltou	W. J. Hartley. Cap. \$1,000. Mountain View, sandstone. Slope; hand, kiln, 600 tons.	
"	"	D. Robertson & Co., Toronto, Ont., 421 Manning av. Rockview, limestone and sandstone. Open pit, 50,000 tons; horse and hand, mill, kiln, 4,800 tons. D. S. Robertson, supt.	
Mono Twp. P. O. and Ry., Orangeville.	Cardwell	William H. Hewson. Cap. \$2,000. Nottawa, sandstone. Open pit, 400 tons; hand.	
"	"	Owen Sound Stone Quarrying & Construction Co., Ltd., Owen Sound, Ont. S. J. Parker, pres.; W. B. Stevens, secy. and treas.; F. W. Sabiston, mgr. Cap. \$18,000. Mono, gray sandstone. Slope; steam developing.	
Oneida Twp. P. O. and Ry., Nelles Corner 290.	Haldimand	Oneida Quarry Co., Ltd., Brantford, Ont., 45 Market st. George H. Wilkes, pres.; J. E. MacKintosh, secy. and treas.; J. S. Holchless, mgr. Cap. \$18,000. Oneida, gray sandstone and marble. Steam developing.	

STONE, MARBLE, GRANITE AND ONYX—(CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY.		
Orangeville Ry. 96.	Wellington		A. Franks (lessee), Orangeville. Freestone, white sandstone. Open pit, 1,000 tons; horse. Isaac Nicholas, supt.	
Perth Ry. 96.	Lanark		T. Alfred Poole. Otty Lake, limestone. 200 tons; hand; kiln, 80 tons.	
Renfrew Ry. 96.	Renfrew		Canadian Granite Co., Ottawa, Ont. A. McLean, pres.; J. C. Rogers, secy.; C. L. Rogers, mgr. Cap. \$1,250. Plant's, gray marble. Open pit, 255 tons; hand. Fred Hilliard, supt.	
Rockdale Ry. Havelock 96.	Peterboro		T. D. Ledyard, Toronto, Ont., 57 Colborne st. Belmont, white marble. Open pits and shafts. J. F. Furdy, supt.	
Thorold Ry. 200.	Welland		Wm. Cartmell. Cap. \$10,000. Mountain, gray limestone. Open pit, 6,000 tons; steam and horse.	
P. O. & Ry. Madoc 200.	Hastings		Hungerford Marble Co., Ltd., Toronto, Ont., 31 Wellington st. E. P. W. Ellis, pres.; Wm. G. Ellis, secy. and treas. Cap. \$100,000. Black, blue and white marble. Open pit; steam.	

SEE ALSO SUPPLEMENTARY LIST

QUEBEC

ANTIMONY

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
South Ham Ry., 669.		Wolfe	James Reed, M. D.	Cap. \$50,000. South Ham, antimony. Shafts, tunnels, steam.

ASBESTOS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Black Lake Ry., 669.		Mégantic	Anglo-Canadian Asbestos Co., Ltd., Montreal, Que.	98 St. François Xavier st. Irwin, Hooper & Co., mng's. Cap. \$tk. \$250,000. Open pits, 1,000 tons. Steam.
"	"	"	Glasgow & Montreal Asbestos Co., Ltd., Glasgow, Scotland, 68 St. Vincent st.	Matthew Penhale, mgt. and supt. Cap. \$tk. \$500,000. Glasgow and Montreal. Open pits, 1,000 tons. Steam.
"	"	"	A Tremblay, St. Agapt, Lotbinière County, Que.	Cap. \$80,000. Asbestos. Open pit, developing.
"	"	"	United Asbestos Co., Ltd., London, Eng., Dock House, Billiter st., E.C.	James Allport, prest.; J. Alfred Fisher, treas. and mgt. Cap. \$tk. \$200,000. Asbestos. Open pits, 500 tons. Steam. John J. Penhale, supt.
Broughton Station, Beauce Ry., 669.		"	Benjamin, Veysa & William, East Broughton, Que.	Cap. \$50,000. Asbestos. Horse and hand, develop mgt.
"	"	"	Alt. Gagne.	Open pit.
"	"	"	Glasgow & Montreal Asbestos Co., Ltd., Glasgow, Scotland, 68 St. Vincent st.	Matthew Penhale, mgt. and supt. Cap. \$tk. \$500,000. Glasgow and Montreal. Open pits, 1,000 tons. Steam.
"	"	"	Hall & Price, Quebec, Que.	Price. Hand, developing.
Buckingham Ry., 76.		Ottawa	Asbestos Mining & Manufacturing Co., Denver, Colo.	Arthur McConnell, prest. and mgt.; G. W. Carr shaw, secy. T. H. Whiting, treas. Cap. \$tk. \$100,000. Tunnel, developing.
Colborne Station, Mégantic Ry., Black Lake, 669.		"	American Asbestos Co., Ltd., Liverpool, Eng., 5 Chapel Walks.	Louis Wertheim, prest.; D. Vabreelsen, secy. and treas.; Ed. Wertheim, mgt. Cap. \$tk. \$300,000. Wertheim. Open pits, tunnels, steam and compressed air. L. A. Klein, supt.
"	"	"	James Reed, M. D., Desjardins, Que.	Cap. \$100,000. Asbestos. Open pits, 150 tons. Steam and com- pressed air. James Savage, supt.
Danville Ry., 296.		Richmond	W. H. Jellery.	Cap. \$750,000. Danville. Open pit, 2,000 tons. Steam. Robert E. Thorpe, supt.
Hull Ry., 76.		Ottawa	Asbestos Mining & Manufacturing Co., Denver, Colo.	J. Labor Block. Arthur McConnell, prest.; G. W. Carnshaw, secy.; T. H. Whiting, treas. Cap. \$tk. \$100,000. Shaft, steam, developing.
Perkins Ry., East Templeton, 76.		Ottawa	Templeton Asbestos Mining Co., Ltd., London, E. C., Eng.	4 Herbyles Passage, Threadneedle st. Randolph Wissmann, prest.; G. T. du Clouthé, secy.; Theodore C. Kirk, mgt. and supt. Cap. \$tk. \$150,000. Open pit, steam.
St. Francis Beauce Beauce Ry., 669.		"	Beauce Asbestos Co., J. Goudbolt, prest.; P. Angers, secy. and mgt.; J. Lortier, treas.	Cap. \$tk. \$100,000. Des Plantes. Open pit and shaft.
Thetford Mines, Mégantic Ry., 669.		"	Bell's Asbestos Co., London, S. E., Eng., 118 Southwark st.	John Bell, prest.; J. E. MacLaren, secy.; D. A. Brown, mgt.; Bell's. Open pits, steam and compressed air. Geo. R. Smith, supt.
"	"	"	Johnson's Asbestos Co., Quebec, Que., St. Peter st.	Geo. Irvine, prest.; Lawrence Lynch, secy. and treas. A. S. Johnson, mgt. and supt. Cap. \$tk. \$250,000. Johnson's. Open pit, 1,500 tons. Steam.
"	"	"	Thetford's Asbestos Cotton Co., New York City, 4 William st.	Edmund W. Pevers, prest.; J. W. Baker, secy.; F. I. Whitcomb, treas.; Oscar G. Barron, mgt. Cap. \$tk. \$100,000. Pevers'. Open pit, 500 tons. Steam. Patrick Camden, supt.
Wolfe Station Ry., Colborne Sta., 669.		Wolfe	A. O. Bergeron.	Open pit, horse.

COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Broughton Station, Beauce Ry., 669.		"	Leeds Copper Co., Ltd., London, Eng., 11 Bloomsbury st., E. C.	R. P. Gough, prest.; C. H. Smith, secy. Cap. \$tk. \$800,000. Leeds, copper. Shaft, 10,000 tons. Steam. Fred Hoskins, supt.
Robertson Sta., Mégantic Ry., 669.		"	Theodore Paré.	Cap. \$2,000. Paré's, copper. Open pit, hand.
Sutton Ry., 76.		Brome	Daniel F. Smith.	Cap. \$100,000. North Sutton, copper. Shaft, horse.
West Broughton, Mégantic Ry., 669.		"	James Noonan.	Copper. Open pit.

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Jersey Mills, By St. Francois 325.			Louis Gendreau, Jersey, gold, Placer, free; water.	
Leeds, By Broughton Stn. 600.	Megantic By		John H. Aulbrow, West Broughton, Que. Gold and copper. Shaft and drift, refractory; hand.	
Marlow, By St. Francois 600.			John Armstrong & Co. Armstrong, gold and silver. Shafts, free; hand.	
Patten, P. O. Eastmain Ry. 36.	Brome By		Menopremagog Mining Co., Eastmain, Que. C. C. Smith, pres., Thomas Bell, secy. and treas. Cap. \$50,000. Patten, silver, copper and iron. Shaft and tunnel.	
Risborough, By 36.	Brome By		John Armstrong & Co., Marlow, Que. Armstrong, gold and silver. Shafts, free; hand.	

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Ascut, By and Sherbrooke Ry. and St. Denis 71.			Eristis Mining Co., Capetown, Que. N. E. C. Eristis, pres., secy. and treas.; John Blue, mgt. and supt. Cap. \$1k, \$750,000. Eristis, iron and copper pyrites. Slope and shaft, 40,000 tons; steam and compressed air.	
Bristol, P. O. Billerds Ry. Wyndham 36.	Pontiac By		Emm & Co., Philadelphia, Pa., 430 Walnut st. Bristol, magnetic. Shaft, slope, open pit, 35,000 tons; steam. Thos. M. Williams, supt.	
Leeds, By Megantic By Robertson Stn. 600.			J. A. McVety, Leeds. Open pit, hand.	
Montreal, By Champlain Ry. 36, 200.			Canada Iron Furnace Co., Ltd., Montreal, Que., New York Life Insurance Bldg. P. H. Griffin, pres.; Thos. J. Drummond, secy., Geo. E. Drummond, treas.; John J. Drummond, mgt. and supt. Cap. \$1k, \$200,000. Bog and magnetic, 40,000 tons; furnace, 15,000 tons. (Mine in Champlain county.)	
Sherbrooke, By 600.	Sherbrooke By		S. E. Smith, Smith's, magnetic. Shaft (developing).	

MINERAL PAINT

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Three Rivers, By St. Malo siding 96	Champlain By		Canada Paint Co., Ltd., Montreal, Que., 572 William st. S. F. McKinnon, pres.; H. M. Pellatt, secy., Gustaf Gylling, treas.; Robert Munro, mgt. Cap. \$1k, \$450,000. St. Malo, magnetic iron oxide. Open pit, 400 tons; horse and hand. (Mine in Champlain county.)	

PHOSPHATE

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	COUNTY		
Buckingham, By 36.	Ottawa By		Canadian Phosphate Co., Ltd., Montreal, Que., 200 Commissioners st. H. C. Miller, pres. and mgt., P. C. Packard, secy. Cap. \$1k, \$200,000. Open pits and tunnel, 8,000 tons; steam. Thos. Lyons, supt.	
"	"	"	East Templeton District Phosphate Mining Syndicate, Ltd., London, Eng., 4 Fenchurch st. J. F. Higginson, mgt. Cap. \$1k, \$80,000. Shafts, open pits, 5,000 tons; steam, mill, 7,500 tons. S. Hunter, supt.	
"	"	"	General Phosphate Corporation, Ltd., London, Eng., Lord Stalbridge, pres.; J. L. Langmead, secy.; Alex. Benson, mgt. Cap. \$1k, \$1,000,000. High Falls and Ross Mountain. Pits and shafts, 5,000 tons; steam. Wm. R. Stewart, supt.	
East Templeton, By 36	Ottawa By		Canada Industrial Co., Ltd., Montreal, Que., 181 St. James st. C. B. Falardeau, pres. and mgt., F. R. White, secy. treas. Cap. \$1k, \$50,000. Phosphate, mgt., feldspar, barytes, asbestos and quartz. Slope, pit, shaft, 5,000 tons; steam. E. Leclerc, supt.	
"	"	"	East Templeton District Phosphate Mining Co., Ltd., Montreal, Que., s Custom House Square. A. Hunter, pres.; C. M. Anderson, secy. treas. Cap. \$1k, \$100,000. Blackburn. Shaft and open pit, 6,000 tons; steam. J. F. Higginson, supt.	
"	"	"	Electric Mining Co., Ltd., Ottawa, Ont., 16 Metcalf st. J. W. McRae, pres.; H. McRae, secy. and treas. Cap. \$1k, \$100,000. Bull Dog and Dixie Lake, rock phosphate. Shafts and open pits, 2,000 tons; steam and electricity. James Kelly, supt.	
Glen Almond, By Buckingham 36.	Ottawa By		Emerald Phosphate Co., Buckingham, Que. Emerald. Slopes and tunnels; hand. Robert Howwood, supt.	
High Rock, By Buckingham 36.	Ottawa By		Central Lake Mining Co., Buckingham, Que. Central Lake. Shaft, tunnel, pit, steam. Joseph Gehlrich, supt.	
"	"	"	Phosphate of Lime Co., Ltd., London, Eng. Augustus Abraham, pres.; Westwood Richards, secy. Cap. \$1k, \$250,000. High Rock, phosphate of lime. Shaft, tunnel, pit, 6,000 tons; steam and compressed air. A. P. Fwale, supt.	
Perkins, By East Templeton 36.	Ottawa By		Netherlands Phosphate Co., Amsterdam, Holland. Eugene Binze, pres.; J. Kogel, mgt. Cap. \$1k, \$200,000. Amsterdam, apatite. Shaft and pit, steam. T. C. Reichenbach, supt.	

SLATE

LOCATION OF QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF QUARRY, KIND OF SLATE, KIND OF QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF QUARRY SUPERINTENDENT.
TOWNS AND COUNTY.	
New Rockland Richmond Ry. Rockland 200.	New Rockland Slate Co., Montreal, Que., 337 St. Paul st. Geo. A. D'Ammond, pres., James Terrier, A. prest., Thos. R. Bacon, secy.-treas., J. J. Wilfrans, mgt. and supt. Cap. stk. \$150,000. Roofing slate. Open pit, steam, water, electricity; mill.

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWNS AND COUNTY.	
Dudswell Centre Wolfe Ry. 411.	Dominion Lime Co., Sherbrooke, Que., Frank Jones, pres., J. R. Woodward, secy., F. K. Buck, treas. and mgt. Cap. stk. \$50,000. Dominion, limestone. Open pit, 16,000 tons, steam, kiln, 16,000 tons. J. H. Barker, supt.
" " "	Sherbrooke & Dudswell Lime & Marble Co., Sherbrooke, Que., T. J. Tick, pres., H. P. Buck, secy., F. P. Buck, treas. and mgt. Cap. stk. \$50,000. Limestone and marble. Open pit, steam.
Peterborough 707 and 38.	Joseph O. Boncher. Cap. \$10,000. Limestone and plaster. Slope, open pit, 10,000 tons, horse; kilns, 10,000 tons.
St. Albans Portland Ry. La Chevreliere 26.	George Beaunage, Portland, Que. Cap. \$50,000. St. Albans, cement stone. Open pit, 12,000 tons, steam, horse, hand, mill, brickkiln, 2,000 tons. Frangois Beaunage, supt.
Stanstead Stanstead Ry. 71.	Stanstead Granite Co., Beebe Plains, Que. H. W. Elder, pres.; L. B. Fregent, vice pres.; F. W. Elder, secy.-treas.; S. R. Norton, mgt. and supt. Cap. stk. \$25,000. Stanstead, light and dark granite. Open pit, 6,000 tons. Steam and horse; mill.

SEE ALSO SUPPLEMENTARY LIST

SUPPLEMENTARY LIST

OF

MINING COMPANIES AND OPERATORS

IN THE

DOMINION OF CANADA

WHOM WE HAVE REASON TO BELIEVE ARE AT POINTS GIVEN, BUT WHO HAVE
FAILED TO FURNISH DESIRED DETAILED INFORMATION
FOR REGULAR LISTS

BRITISH COLUMBIA

COAL BITUMINOUS

NAME	POSTOFFICE
New Vancouver Coal Co., Nanaimo	
Kettle River Coal Co.	New Westminster
Tumble Island Coal Mining Co.	Mayne
Union Colliery Co.	Victoria
R. Dunsinuir & Sons	Wellington

COPPER

C. J. Law	Golden
Stadacona Silver Copper Mining Co.	Victoria

COLD AND SILVER

L. Alexander & Co.	Amstworth
H. Anderson	"
D. Clark & Co.	"
R. F. Green	"
W. H. Hendry & Co.	"
E. J. Lendrum & Co.	"
McTune & Co.	"
C. Olson & Co.	"
J. L. Rothblatt & Co.	"
Geo. Whitten	"
Frank McMillan & Co.	Alberni
Alberni Hydraulic Gold Mining Co.	Barkerville
Flynn Bros.	"
Toronto Mining Co., of Sugar Creek	Boundary Creek
Atwood & Co.	"
Atwood & Schofield	"
Atwood, Lefron & Co.	"
Atwood & Lemon	"
Atwood, Smith & Co.	"
Wm. Austin	"
A. Brown	"
J. M. Buckley	"
Campbell & Creston	"
Chaplin & Co.	"
Chaplin & Ruenberger	"
R. Donzier	"
Donzier & Douglass	"
Donzier & Gibbs	"
John Douglass	"
John H. East	"
Ewing, Knightly & Co.	"
Frank George	"
Frank Gome	"
Matt Hatter	"
J. T. Koenig	"
Lambert & Nicholson	"
E. Letron	"
James Lynch	"
Mrs. McAuley	"
E. M. McArthur	"
A. W. McCormick & Co.	"
Mrs. McDunnell	"
Donald McLaren	"
McLennan & Kay	"
John McRae	"
Donald McKee	"
Mangatt & Taylor	"
Clarence Mitchell	"

NAME	POSTOFFICE
Moran & Hammer	Boundary Creek
A. C. Overton	"
Geo. Rifer	"
E. J. Roberts	"
Ruenberger & Taylor	"
James Schofield	"
Ben. Shaw	"
W. T. Smith	"
Smith & Mitchell	"
John Sullivan	"
Thomas Wake	"
Henry White	"
A. D. Andrews	Fairview
Sam. Barkley	"
Boeing, Coryella, Shelden	"
John Brehan	"
Geo. H. Cahill	"
H. A. Carmichael	"
Carmichael & Wilkinson	"
M. Chapman	"
Chapman & Pickard	"
Mrs. Davis	"
Oliver Davis & Co.	"
M. Dalrymple	"
Deater & Seeley	"
O. M. Dutton	"
Eaton & Hunter	"
J. A. Ellsback	"
J. K. Fleming	"
J. R. Fleming & Co.	"
James Grant	"
Grant & Dalrymple	"
Ryerson Guest	"
V. W. Horsager	"
A. R. Junkin	"
D. Leggatt & Co.	"
McBride & Powers	"
D. M. McLaughlin	"
Manson McMillan	"
McMillan & Mead	"
S. Mangatt & Co.	"
Mead & Carmichael	"
Mead & Gowing	"
Henry Nicholson	"
Henry Osting	"
Knight Parker	"
L. L. Patrick	"
W. J. Porter	"
Mrs. Powers	"
Telix M. Pugh	"
Edmund D. Reynolds	"
H. Rose	"
O. D. Sanford	"
Sanford & Co.	"
Geo. Sheehan & Co.	"
Sheehan & Gwatkins	"
S. L. Silverman & Co.	"
P. K. Simmons	"
J. W. Sind	"
John Stevens	"
Stevens & Gwatkins	"
Stonich & Rose	"
Mrs. B. Tindle	"
Travis & Dalrymple	"
S. Throft	"
G. Wilkinson	"
Williams & Gates	"
Anglo American Platinum Co.	Granite Creek
British Platinum Co.	"

NAME	POSTOFFICE
Eagle Creek Platinum & Granite Creek	
Honest Creek Platinum Co.	"
New York Platinum Co.	"
Tulamen Improvement & Hydraulic Co.	"
Henry Hunter	Hope
Jas. Wardle	"
A. C. Birchard	Ketchikan
Chelson & Judd	"
C. W. Gardner	"
John Grizley	"
Lillooet Hydraulic Mining Co.	Lillooet
John Marshall	"
Ming Place Mining Co.	"
A. J. Bunt	Osoyoos
J. A. Finck	"
C. W. Gardner	"
Fred Johnson	"
Keller & Lingle	"
W. F. Keller	"
Lambly & Edwards	"
Jack McNeil	"
Frank Richter	"
Frank Stewco	"
Taylor & Seely	"
Koodenay Mining & Smelting Co.	Pilot Bay, via Nelson
Cariboo Hyd. Mining Co.	Quesnel
Champion Hyd. Mining Co.	"
Columbia & Koodenay Smelting Co.	Revelstoke
J. W. Huskins	"
John Stauber	"
High Cameron	Rock Creek
Charles Dietz	"
Wm. Edwards	"
John Moran	"
Moran, Hotter & Co.	"
Stonich & Mass	"
Wm. Beattie	Van Winkle
Big Poudre Co.	"
Coyne Mining Co.	"
Jos. Donovan	"
David Edwards	"
Harry Jones	"
Justice Mining Co.	"
Monraker Co.	"
A. Montgomery	"
Gold Pouchard	"
John Reed	"
Snowden Mining Co.	"
Fred J. Treagus	"
W. L. White	"
John A. Yeats	"
B. C. Mining & Milling Co., Ltd.	Victoria
Fraser River Gold Gray	"
Robt. Sutherland	Yale
Whitcomb Gold Mining Co.	"
Yale Gold Mining Co.	"

LEAD AND ZINC

Ashworth & Johnson	Amstworth
N. D. Hamilton	Cariboo
Ans. Anderson	Ellenburghast

NAME	POSTOFFICE	NAME	POSTOFFICE	NAME	POSTOFFICE
J. B. Bamfield	Uthellewaud	GOLD AND SILVER		G. A. Wilson	White Fish
Thos. Bario	"	NAME	POSTOFFICE	Thos. Martindale	York
Corliss & Kennedy	"	Robert Wright	Caribou		
Lamark Cons. Mining &	"	Lodley McLean	Fifteen Milestream	GOLD AND SILVER	
Smelting Co.	"	Duncan McQuinn	"	James Bell	Arnprior
D. A. Loney	"	Jos. Souer	"	Badger Mining Co.	Beaver Mine
A. C. McArthur	"	Stanley Gold Co.	"	Clunax Mining Co.	"
Alex. McKee	"	South Umanak Gold Min-	"	Rabbit Mount Mining Co.	"
Walter Scott	"	ing Co.	Baintax	South African General	"
Chas. Strawberg	"	124 Hollis St.	"	Expl. & Mining Co.	Belleville
John Taylor	"	Rockland Gold Mining &	"	Gillies Bros.	Braceide
Rand Bros.	Vancouver	Milling Co.	Isaiah Harbor	Jos. Butler & G. C. Scott	Chatham

SLATE

R. Nightingale & Co.	Nanaimo
Westminster Slate Co.	New Westminster

STONE, GRANITE, MARBLE AND ONYX

Malaspina Red Granite	Nanaimo
Quarry Co.	Vancouver
Tuxford Lime Co.	Vancouver
Vancouver Brick & Tile	"
Co.	"
Vancouver San. Jan	"
Lime Co.	"
British Columbia Pottery	Victoria
& Terra Cotta Co.	"
4 Langley St.	"
Kokislah Quarry Co.	"

NEW BRUNSWICK**COAL**

Canada Coal Co.	St. John
Joggins Coal Mining	"
Association	"

IRON

Londonderry Iron Wks.	Londonderry
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STONE, GRANITE, MARBLE AND ONYX

Mine, Courts & Co.	St. George
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NORTHWEST TER.**COAL**

Owen Osburn	Clover Bar
Phil Ottowell	"
Shearan Mining Co.	Lethbridge
Smith Nelson & Holway	Middle Fork
Stone & Wilson	"
W. E. Stone	Pinehit Creek

GOLD AND SILVER

H. N. Gibson	Clover Bar
Israel Adam	Fort Saskatchewan
John F. Beaupre	"
Thomas Barltough	"
James Dandy	"
Israel Lamontoux	"
R. H. Morris	"
Baptiste Pilon	"

STONE

W. H. Cushing	Calgary
J. McIntosh	Lethbridge
Colquhoun Bros.	"
Howard Bros.	"
Canada Northwest Coal	"
& Lumber Co.	Mildred

NOVA SCOTIA**COAL**

R. McGrath	Brookfield
East Bay Coal Co.	East Bay
Cape Breton Island	"
Dundas Coal Mining Co.	Montland
East River Coal Co.	New Glasgow
Goarrie Coal Mining Co.	North Sydney
Colchester Coal Mining	"
Co.	Truro

COPPER

Spring Hill Prospecting	"
& Mining Co.	Oxford

NAME	POSTOFFICE	NAME	POSTOFFICE
Robert Wright	Caribou		
Lodley McLean	Fifteen Milestream		
Duncan McQuinn	"		
Jos. Souer	"		
Stanley Gold Co.	"		
South Umanak Gold Min-	"		
ing Co.	Baintax		
124 Hollis St.	"		
Rockland Gold Mining &	"		
Milling Co.	Isaiah Harbor		
R. McLeod	Malaga Gold Mines		
Malaga Mining Co.	"		
G. A. Wade	"		
J. J. Brenton	Middle Stewiacke		
Henry Smith	"		
Chas. Armand	Montague Gold		
	Mines		
C. P. Maynard	Moose Landing		
Jonathan Irving	"		
S. Shorn	"		
Penninsula Gold Mining	"		
Co.	"		
Joseph Dwyer	Oldham		
Greenough Bros.	"		
P. O'Shaughnessy	"		
J. W. N. Reeves	"		
Ed. Whinden	"		
McDonald & F. Andrews	Rentrew		
Chas. H. North	"		
M. Thompson	"		
Alonso Hayward	"		
Thompson & Quirk Gold	"		
Co.	South Umanak		
Antigonish Co.	Stornont		
Mason Co.	"		
North Star Co.	"		
C. Clark	Truro		
G. W. Stuart	"		
Nova Scotia Syndicate	Waverly		
John Stephen	"		
Thomas Ralph	Wine Harbor		

IRON

E. Churchill & Sons	Hampport
Robert Chambers	New Glasgow
Nova Scotia Iron Co.	"
D. W. McVicar	Tene Cape
J. W. Stephens	"
Wm. Stephens	"

STONE, GRANITE, MARBLE AND ONYX

R. Fisher	Middle Stewiacke
Wm. Putnam	"
Saml. Pike	"
John Taylor	"
Battye Freestone Co.	Wallace

ONTARIO**COAL BITUMINOUS**

Canadian Anthracite	Ottawa
Coal Co.	"
11 Metcalfe St.	"
Anthracite & Bituminous	Toronto
Coal Co.	"
1 S. Toronto St.	"
Provincial Natural Gas	Welland
& Fuel Co.	"

COPPER

Robert Tough	Arnprior
Blackwell & Mitchell	Callithrift
Thos. Frood	Little Current
H. S. Hodges	"
Thomas Ledrel	Port Arthur
Richard H. Paulson	"
Silver Islet Co.	"
Ontario Mining Co.	Rat Portage
John K. Wright	"
Chicago Algoma Nickel	"
Co.	Sudbury
Sudbury Mining Co.	Toronto
101 Bay St.	"
John Pustant	White Fish
W. C. Duncan	"
John Dwyer	"
Empire Mining Co.	"
Arthur Gordon	"
James Gordon	"
S. P. Kelly	"
A. McCharles	"
Russell & Barnett	"
A. Simpson	"
Henry Smith	"

NAME	POSTOFFICE
G. A. Wilson	White Fish
Thos. Martindale	York

GOLD AND SILVER

James Bell	Arnprior
Badger Mining Co.	Beaver Mine
Clunax Mining Co.	"
Rabbit Mount Mining Co.	"
South African General	"
Expl. & Mining Co.	Belleville
Gillies Bros.	Braceide
Jos. Butler & G. C. Scott	Chatham
James Buchanan	Fl. William
McKelland Silver Mining	"
Co.	"
H. Parsons	"
Victoria Mining Co.	Garden River
Elgin Silver Mining Co.	Jack Fish Bay
J. C. Boyne	Marmora
El Dorado Gold Mining Co.	"
Walter Beals	Nickel City
John Ferguson	North Bay
J. E. Askwith	Ottawa
Beaver Silver Mining Co.	Port Arthur
James Connor	"
East End Silver Mount-	"
ain Co.	"
N. Garland	"
Peter Gossens	"
Thomas Merks & Co.	"
Silver Mountain Co.	"
Society General Belgian	"
Co.	"
Wiley & Co.	"
Jas. Stobie	Port Lock
T. S. Hampton	Shriab Lake
Messrs., Democrat &	"
Johnston	Sudbury
A. Merry	"
Dani. O'Connor	"
Sudbury Customs Silver	"
Co.	"
J. M. Clarke	Toronto
W. D. McPherson	"
W. J. Skymper, esq.	"
Straight Lake Mining Co.	"
Toronto Gold Mining &	"
Refining Co.	"

GYPSPUM

Excelsior Gypsum Min-	"
ing Co.	Gayma
Grand River Plaster Co.	"

IRON

D. B. Bardette	Belleville
A. L. Barnes	Black Bay
Frank Front	Brace Mines
L. H. Johnson	Caladoun
Thos. Tisdale	Canara
McKellar Bros.	Port Williams
Mountain Lake Co.	Jack Fish Bay
Kingston & Pembroke	"
Iron Mining Co.	Kingston
Stirling Corporation	"
Callwell & Co. M. P. P.	Lamark
Fenton & Co.	Little Current
P. Frood	"
Wm. Ward	"
Wm. Kelly	Marmora
N. H. Powell	"
Donaldson & Co.	Mt. Healey
A. McCharles	Nickel City
Angus Nickle Co.	Port
Robert Ordeek	"
Peter McLaren	"
W. J. Morris	"
Ed. Wais	"
John Wilson	"
Peterborough & Fron-	"
terburg Mining Co.	Peterborough
W. J. Barrie	Port Arthur
S. J. Dawson	"
Robert Baillie	Rat Portage
Dr. Henson	"
Holmes & Inch	"
Winnipeg Consolidated	"
Co.	"
Alex. Barnett	Rentrew
John McAndrew	"
Ed. McKay	"
James Russell	"
Martin Russell	"
Wm. Bell	Sault Ste. Marie
Joseph Cozens	"
Jas. Stobie	Stobie
Canadian Copper Lfite Co.	Sudbury
Dominion Mineral Co.	"
Travers	"
Cape Breton Nickel Co.	"
McCormack	"

LIST OF MINING COMPANIES AND OPERATORS OF THE REPUBLIC OF MEXICO (SEE ALSO SUPPLEMENTARY LIST, PAGE 182.)

ANTIMONY

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT, TOWN AND STATE.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, AND NAME OF MINE SUPERINTENDENT.
Nieves, Zacatecas Ry. Jimenez 434 (90 miles.)	Rasilio Moreno, 42 Calle de la Cruz, Zacatecas, Mex., \$20,000. Santo Niño. Antimony. Shaft and open pit, 30,000 tons. Free.

COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT, TOWN AND STATE.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
Santa Rosalia, Lower Cal. Ry. 685.	Compagnie du Bolso, Paris, France; Cite d'Orfin. Chas. Latorgine, mgt. Cap. stk. \$5,000,000. Bolso. Shaft, 150,000 tons. Steam.

GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT, TOWN AND STATE.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STEAM MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
Carbo, Sonora Ry. 26, 685.	Gowan Mining Co., Minneapolis, Minn.; 101 Needler av. A. H. Linton, pres.; A. S. Langdon, secy. and treas.; John A. Gowan, mgt. and supt. Cap. stk. \$500,000. El Socorro, silver. Shaft, refractory.
Catorce, San Luis Potosi Ry. Avilaes 436 (20 miles.)	Compania Minera Antonina de Concepcion y Anexas, San Luis Potosi, Mex.; 24 Calle de Mallos. Carlos Diaz Gutierrez, pres.; Paulino F. Almanzo, secy. and treas.; Chas. E. Hoffman, mgt.; Concepcion Frisco, gold, silver and lead. Shafts, tunnels and slopes, 5000 tons. Refractory and free; steam and horse, 40 stamps. Luis Barragan, supt.; Valenciano, San Jose.
" "	Compania Minera del Retengo, Mateas H. Salazar, pres.; Adolfo Oelberg, mgt. and supt.; La Luz, silver. Tunnel, 5000 tons. Free; horse; patio process. Dolores, silver. Shaft and tunnel, 1,500 tons. Free; horse; patio process.
" "	Compania Union Catorceña, Pedro de la Maya, pres. and treas.; Bernabe Rocha, secy.; Joaquin Barrero, mgt.; Cap. stk. syndicate. San Angelito, silver. Shafts, tunnels and cuts, 2,000 tons. Refractory; horse; Isabel Carrillo, supt.
" "	Gregorio de la Maza, Cap. \$1,000,000. Negociacion de Santa Ana, silver. Tunnels and shafts, 15,000 tons. Free; steam and electricity; patio process. Francisco M. Coghill, supt.
Corralitos, Chihuahua Ry. San Jose 44.	Corralitos Mining Co., New York City; 5 Exchange pl. Solon Humphreys, pres.; S. Newton Smith, secy. and treas.; Milton Davis, mgt. Cap. stk. \$1,500,000. Guadalupe, San Pedro, Leon, Congress and others, gold, silver and lead. Slopes, 5000 tons. Refractory; steam; concentrator and smelter. Geo. Bone, supt.
El Grande, Sonora P. O. and Ry. Santa Ana 685.	El Plomo Gold Mining Co., New York City; 29 Broadway. H. Channins, pres.; John C. Rogers, secy.; Geo. D. Roberts, mgt. Cap. stk. \$1,250,000. Colorado, El Plomo and Blanco, gold, silver and lead. Shaft and tunnel, refractory, steam, smelter.
El Potrero, Chihuahua P. O. Jesus Maria Ry. Chihuahua 434 (50 miles.)	El Potrero Gold & Silver Mining & Milling Co., Chicago, Ill.; Union Stock Yards. N. Cochran, pres.; J. C. Thomson, secy. and treas.; S. S. Gates, mgt. and supt. Cap. stk. \$1,000,000. Guadalupe, gold and silver. Shaft and tunnel, 15,000 tons. Free; steam, 20 stamps.
Guadalupe Calvo, Chihuahua P. O. San Jose Ry. Chihuahua 44.	San Jose Consolidated Gold & Silver Mining Co., Chicago, Ill.; 920 Chamber of Commerce Bldg. Wm. G. Rivers, pres.; Edgar E. Tolman, secy.; Austin E. Ryce, treas.; J. Thornton, mgt. Cap. stk. \$5,000,000. Forty-three claims, gold and silver. Steam and water. Developing.

GOLD AND SILVER—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN	AND	STATE		
Guanajuato	Durango		Camito Bolivar. Cap. \$500,000. Guadalupe, silver. Shaft, incl. 2,000 tons; refractory; horse. Daniel Bar-	
"	"	Ry. Jimenez 7434 (1901).	Camito Bolivar. Cap. \$500,000. Guadalupe, silver and lead. Shaft, smelting; hand.	
Guanajuato	Durango		Compania Minera La Sirena Mexico, 3 Calle de San Francisco, Mex. Martin del Castillo, prest.; Manuel	
"	"	Ry. Jimenez 7434 (1901).	Vivanco, secy., Antero Munizuri, treas., Camito Bolivar, mgr., Guanajuato, Durango, Mex. Cap. \$500,000. La Sirena, gold, silver and lead. Shaft, 20,000 tons; refractory; steam; 2 Chiff mills. Juan	
"	"		B. Duarte, supt.	
Guanajuato	Sonora		Gulf Gold Mining Co., Akron, Ohio. Cap. stk. \$2,000,000. Santa Marta, gold. Tunnel; free; steam.	
Guanajuato	Durango		Compania de Guadalupe. Guillermo I. Benton, prest. and supt.; Miguel M. Samper, secy.; Andres Avila,	
"	"	Ry. Jimenez 7434 (1901).	treas. Cap. stk. \$15,000. Guadalupe, silver and lead. Shaft, smelting; hand.	
"	"		Garabatos Mining & Smelting Co., Joliet, Ill., 63 Young Block. J. Russell Burks, prest.; Geo. J. Munne,	
"	"		secy., D. Robertson, treas. and mgr. Cap. stk. \$2,000,000. Garabatos, gold, silver and lead. Shaft,	
"	"		6,000 tons; refractory; steam. Frank Her, supt.	
"	"		Inde Mining Co., 4 E. First St. Henry R. Wolcott, prest.; P. S. Bailey, secy. and treas.; E. M. Parrish,	
"	"		mgr. and supt. Cap. stk. \$500,000. Mina del Agua, silver. Shaft; refractory; steam and water.	
"	"		Negociacion Minera del Caballo. William Benton, Corpas Christi, Tex., prest. and mgr.; Juan B. Baca,	
"	"		Jimenez, Chihuahua, Mex., secy. and treas. El Caballo, silver, lead, carbonates. Shaft and tunnel,	
"	"		25,000 tons; smelting; free; hand. W. I. Benton, supt.	
"	"		Tepeones Mining & Smelting Co., C. B. Zeck, secy. and treas.; D. W. Farris, gen. mgr. Los Machos,	
"	"		silver and lead. Shaft, 1,200 tons; refractory. Quirino Corilla, supt.	
Jesus Maria	Chihuahua		Santa Edwiyes Mining & Milling Co., H. A. W. Tabor, prest.; C. J. Rowell, secy.; A. S. Weston, treas.;	
"	"	Ry. Chihuahua 434 (1901).	J. C. Carrera, mgr. Cap. stk. \$1,000,000. Santa Edwiyes, gold and silver. Tunnels, 10,000 tons; free;	
"	"		steam and water; 25 stamps.	
Magdalena	Sonora		Sonora Gold & Silver Mining Co., Cleveland, Ohio. W. M. Williams, prest.; H. W. Gebaur, secy.; J. S.	
"	"	Ry. 655	Malone, treas.; J. S. Morgan, mgr. Cap. stk. \$10,000. Honore, Cleopatra, Josephine and Isabel,	
"	"		gold. Shaft, tunnel, free; steam; 10 stamps. E. Kipp, supt.	
Matamoros	Durango		Lanste Mining Co., Pittsburg, Pa., 35 Fifth av. H. D. Gamble, prest.; W. J. Miller, secy. and treas. Cap.	
"	"	P. O. El Paso Ry. Jimenez 7434 (1901).	stk. \$200,000. Coahuila and Colorado, gold and silver. Shaft, 6,000 tons; free; refractory; steam; 5	
"	"		stamps and pulverizer. J. A. Reed, supt.	
Matamoros	San Luis Potosi		Compania Minera La Paz Matamoros, 2 Calle del Moro, San Luis Potosi, Mex. Anastasio Moreno, prest.;	
"	"	Ry. 436	Enrique Battecher, secy. and treas. Santa Maria de la Paz and others, gold, silver, lead and iron.	
"	"		Shafts, 50,000 tons; free; steam. Guillermo Dugwall, supt.	
"	"		Santa Rita Mining Co., W. B. A. Dugwall, prest. and mgr.; Jose Perez Perez, treas. San Silvestre, La	
"	"		Colorado and Santa Rita, silver, lead and iron. Tunnel and shaft, 3,000 tons; refractory. Jesus Pedro	
"	"		Flores, supt.	
Moris	Chihuahua		El Socorro Mining & Milling Co., Cincinnati, Ohio, Room 410 Neave Bldg. Wilson E. Griffiths, prest.;	
"	"	Ry. 443	Judson W. Breed, secy. and treas.; Jas. F. Mason, mgr. and supt. Cap. stk. \$100,000. El Socorro, gold	
"	"		and silver. Shafts and tunnels, 14,000 tons; free; steam, mill.	
"	"		La Dura Mining & Milling Co., Cincinnati, Ohio, Room 410 Neave Bldg. Wilson E. Griffiths, prest.;	
"	"		Judson W. Breed, secy. and treas.; John R. Patton, mgr. and supt. Cap. stk. \$125,000. La Dura, gold and	
"	"		silver. Shafts and tunnels, free; steam.	
Opacabente	Chihuahua		Roberts & Broxton, El Paso, Texas. Ferosa, silver and lead. Shafts; free; hand. A. C. Broxton, supt.	
"	"	Ry. 444		
Pachuca	Hidalgo		San Felipe de Jesus Mining Co., City of Mexico, Calle Guite 14. Samuel B. Knight, prest.; Jose D. Vargas,	
"	"	Ry. 444	secy., A. C. Young, treas., Francisco Rube, mgr. and supt. San Felipe de Jesus, gold and silver.	
"	"		Shaft, 1,200 tons; refractory; horse.	
Paraiso	Chihuahua		Compania Minera de El Fago, Mex. Francisco Gomez, prest.; Lie Justo Prieto, secy.; Miguel Chavez,	
"	"	Ry. Jimenez 7434 (1901).	treas., Victor Esperon, mgr. Syndicate. El Fago y Anexas, silver and lead. Shafts, tunnels and	
"	"		slopes, 3,500 tons; refractory and free; Jose Calles, supt.	
"	"		Cia Minera de San Gregorio, 24 Calle de Guadalupe. Lie Miguel Rodriguez, prest. and mgr.; Ricardo	
"	"		Rodriguez Dominguez, secy.; Ricardo Rodriguez Chavez, treas. Cap. stk. \$50,000. San Gregorio,	
"	"		silver. Shafts and tunnels, 4,200 tons; free; steam. Ricardo Martinez, supt.	
"	"		Hidalgo Mining Co., Pittsburg, Pa., Westinghouse Bldg. John B. McKelvy, prest.; Samuel E. Gill, secy.	
"	"		and treas.; Jas. I. Long, mgr. Cap. stk. \$1,000,000. Philadelphia, Presena, Salto, etc., silver and lead.	
"	"		Shaft, refractory; steam; mill.	
"	"		Compania Minera San Patricio, 24 Calle de Coronado. Francisco Gomez, prest.; Victor Esperon, secy.;	
"	"		Miguel Dominguez, treas.; Juan Abnauzan, mgr. Syndicate. San Patricio, silver and lead. Shafts	
"	"		and tunnels, 3,000 tons; refractory, miles. Simon Armandariz, supt.	
"	"		Negociacion Minera de Veta Grande. Federico Stallforth y Hermano, owners. Veta Grande, and El	
"	"		Verde, gold and silver. Shafts and tunnels, 20,000 tons; free; steam, 20 stamps. Carlos Scott, supt.	
"	"		North American Mining Co., New York City, 60 Broadway, Room 48. D. T. Aber, prest.; A. C. McMechan,	
"	"		secy., C. J. Eber, treas.; W. H. Kingsbury, mgr. Cap. stk. \$2,500,000. La Dura. Shaft, free; steam; 10	
"	"		silver. Shaft and slope, 3,000 tons; free; horse, mill. T. S. Kingsbury, supt.	
"	"		John F. Ramsden. San Francisco and La Morena, silver. Shaft, 5,000 tons; free; horse.	
"	"		J. F. Seuberting, G. C. Beckmann, mgr. Cap. \$150,000. Altarena and Viscaina, silver. Slope, 10,000 tons,	
"	"		refractory; steam.	
"	"		Federico Stallforth & Bro. San Francisco del Cerro Colorado, gold and silver. 1,500 tons, mile. Clement	
"	"		Kuchle, supt.	
"	"		J. F. Townsend, Canal Dover, Ohio. Cap. \$50,000. Quebradillas, silver. Shaft, refractory; steam. T. R.	
"	"		Willard, supt.	
Piedra Liza	Chihuahua		Le Mars & La Dura Mining Co., Le Mars, Iowa. G. C. MacLagan, prest.; E. D. Chossell, secy.; J. W.	
"	"	Ry. Jimenez 7434 (1901).	Myers, treas.; J. D. Knotts, mgr. and supt. Cap. stk. \$1,000,000. La Dura. Shaft, free; steam; 10	
"	"		stamps.	

GOLD AND SILVER—(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN	AND STATE	
Pinos	Zacatecas	Compañía Minera Anónima de Candelaria y Anexas, San Luis Potosí, Mex., 3a Calle de Maltos No. 1, Edward Meade, pres., and treas.; Francisco Cosío, secy., Cap. stk. \$200,000. Candelaria, gold and silver. Shaft, 4,000 tons, free, steam, horse, patio process. Carlos Echeverría, supt.
"	"	Guadalupe Mining & Milling Co., Chicago, Ill., 225 Dearborn St., Wm. H. Fuller, pres., W. W. Watson, secy.; R. A. Watson, treas.; Isaac N. Miller, mgr. and supt., Cap. stk. \$1,000,000. Guadalupe, gold and silver. Shaft; free.
Ramos	San Luis Potosí	Ramos Mining Co., Milwaukee, Wis., U. S. A., 425 E. Water St., C. A. Read, pres.; J. C. Iversen, secy., and treas.; Jas. P. Flynn, mgr. and supt., Cap. stk. \$300,000. Twenty-eight mines, silver and copper. Shafts, refractory, steam.
Rosa Morada	Jalisco	Santiago Mining & Milling Co., Oakland, Cal., U. S. A., J. S. Burpee, pres.; L. F. Farr, secy.; W. W. Whitman, treas.; J. A. Chesnut, mgr. and supt., Cap. stk. \$100,000. La Reforma, gold and silver. Shaft and tunnel, 3,000 tons, refractory and free, water, mill. (Mine in Tepe Te.)
Sabinal	Chihuahua	A. Mungenberger, Cap. \$100,000. Santa Domingo and Bisnachi, gold, silver and lead. Tunnels and shaft, 1,000 tons; refractory, horse. Fernando Sotero, supt.
"	"	Tomas & Crotas Salazar, Mexico, silver and lead. Shaft and tunnel, 300 tons. Alberto Trujillo, supt.
Salinas	Nuevo León	Rosario Mining Co., Dallas, Tex., U. S. A., Banks & Merchants' National Bank, Gen. Geo. F. Alford, pres.; C. H. Wm. J. Keller, secy.; Juan Weber, tre. S. H. H. Earlhardt, mgr. and supt., Cap. stk. \$250,000. Rosario, silver and lead. Shaft and slope, refractory, developing.
San Juan Mine	Chihuahua	Tenta Duran Mining & Milling Co., Cherokee, Iowa, U. S. A., John Clarkson, pres.; A. C. Holgate, secy., and treas.; G. P. Perley, mgr. Cap. stk. \$200,000. Tenta Duran, gold and silver. Tunnel, free, steam, mill (developing).
San Pablo	Sonora	San Luis Mining & Reduction Co., St. Louis, Mo., Room 24 Turner Bldg., Gans Caddock, pres.; F. A. Banister, secy.; M. A. Demoss, treas.; F. A. Layton, mgr. and supt., Cap. stk. \$100,000. San Pablo and others, gold, silver and lead. Tunnels and shafts, 5,000 tons; refractory, steam, crusher.
Santa Barbara Chihuahua	"	Brazon & Cunningham, Cap. \$75,000. El Carbón, silver and lead. Tunnel, 1,000 tons; refractory, steam, mill. J. J. Brazon, supt.
"	"	Mexican Santa Barbara Mining Co., San Francisco del Oro, gold and silver. Shaft, 1,000 tons; refractory, steam, 20 stamps.
Sierra Mojada	Coahuila	Consolidated Kansas City Smelting & Refining Co., Kansas City, Mo., U. S. A., J. F. Exchange Bldg., A. R. Meyer, pres. and treas.; H. D. Everett, secy.; H. Huber, mgr. Cap. stk. \$2,000,000. San José and San Salvador, silver and lead. Shaft, 600 tons; refractory, steam, furnace. F. Fischer, supt.
Sombrerete	Zacatecas	San Martin Mining Co., New York City, 17 Wall St., J. L. Cunningham, pres.; Henry Bradstreet, secy. and treas., Cap. stk. \$1,000,000. Thirty mines, gold and silver. Shafts and tunnels, refractory.
Sultrepe	Mexico	Hudgale Smelting Co., Milwaukee, Wis., U. S. A., 105 Milwaukee St., John E. Burton, pres. and treas.; Stoddard H. Martin, secy.; Chas. E. LaBelle, mgr. Cap. stk. \$500,000. La Cruz, Occidente and Centro Partida, silver. Tunnel, refractory, water, smelter, 2,000 tons.
Victoria	Tamaulipas	La Fortuna Mining Co., Dallas, Texas, U. S. A., Banks & Merchants' National Bank, Geo. F. Alford, pres.; Wm. J. Keller, secy.; Juan Weber, tre. S. H. H. Earlhardt, mgr. and supt., Cap. stk. \$250,000. La Fortuna, Santa Cristo and Don Julio, silver and lead. Shafts, tunnel and slope, refractory (developing).
Zacatecas	Zacatecas	Compañía Anónima de Purísima de Napolé y Anexas, Federico L. y S. Diaz, pres.; L. E. Mariano Sanchez, secy.; Benjamin Gomez Gordon, treas., Cap. stk. \$75,000. La Sra. Purísima, Santa Mariana, Bodega, Fortuna and Tesoro, silver. Shafts and tunnels, 900 tons; smelter, horse. Ambrosio Aranza, supt.
"	"	El Puracima de los Compañeros, Guadalupe, Zacatecas. Crotas Canyon, pres.; Francisco Sanchez, secy., and treas.; Eduardo V. J. Keller, treas., Cap. stk. \$50,000. Puracima de los Compañeros, silver and lead. 20 tons, tunnels, horse. Gerardo Palacios, supt.
"	"	Negociación Minera de Sangua, Vicente Arzua, pres.; Jesus Salazar, secy.; Mariano P. Llanusa, mgr. and supt., San Antonio and Anexas, silver. Shafts and tunnels, 20,000 tons. Refractory, steam, M. Molina, supt.
(No town given)	Sonora	Valenzuela Consolidated Land and Mining Co., San Francisco, Cal., 444 California St., Cesar Berthelot, pres.; A. Everett Ball, secy.; Anglo Californian Bank, San Francisco, Cal. treas.; Julius Koebig, mgr., Cap. stk. \$2,000,000. Valenzuela, San Patricio and San Felipe, gold and silver. Shaft and tunnel, free. Samuel L. Curtis, supt.
(No town given)	Sonora	Somera Development Co., Ltd., New Orleans, La., U. S. A., Morris Bldg., Chas. Noel, pres.; F. J. Gougeon, secy. and treas.; H. B. Carroll, mgr. Cap. stk. \$600,000. Plata Real, silver. Shaft and tunnel, free. A. Heaven, supt.

IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN	AND STATE	
Durango	Durango	Durango Steel & Iron Co., Dos Mochos, Iowa, Iowa Loan and Trust Bldg., J. S. Calahan, pres.; Geo. C. O'Neil, V. pres.; Geo. W. Baker, secy.; A. Holmdahl, treas.; J. S. Cunningham, mgr. and supt., Cap. stk. \$500,000. Sierra Morena, Shaft and tunnel, 2,000 tons; steam, furnace.

LEAD AND ZINC

LOCATION OF MINE,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.
TOWN AND STATE

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF
POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.

Guerrero. Durango
Ry. Juarez 7434 (8900). 1.

Carrito Bolivar. \$500,000. La Misericordia, lead and copper. Shafts. In litigation.

QUICKSILVER

LOCATION OF MINE,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.
TOWN AND STATE

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF MINE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER
USED, AND NAME OF MINE SUPERINTENDENT.

Guadalupe. San Luis Potosi
Ry. Villar 444.

Guadalupe Quicksilver Mining Co., Ltd., London, E. C., Eng., 7 Poultry St. John McTearns, pres.;
Percy W. Furber, secy. and treas.; Robert Mackenzie, mgr. and supt. Cap. \$2,000,000. La Trinidad
Arenas. Shaft, tunnel and slope. 1,200 tons; hand, furnace.

SALT

LOCATION OF MINE
OR WELL,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.
TOWN AND STATE

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000
POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.

Carmen Island, Lower Cal.
(P. O. Guaymas, Mex.)
Ry. 552 and 685.

Carmen Island Salt Co., Chicago, Ill., 608 Phenix Bldg. Chas. Miller, pres.; Chas. E. Schaubler, secy.
and mgr.; Conrad Eimbeck, mgr. Cap. stock, \$1,000,000. Carmen, table and rock salt. Open pit. 50-
100 tons. Vincente R. Menais, supt.

STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE
OR QUARRY,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.
TOWN AND STATE

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF
2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND
CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

Chihuahua. Morelos
Ry. 325.

American Rose Garnet Co., New York City, 733 Broadway. Edwin C. Atkinson, pres.; Wm. Niven,
V. pres. and mgr.; Frederick A. Schmitt, secy. George A. English, treas. Cap. \$250,000. Mina de
Granite de Rosa, rose garnet. Open pit, hand, mill.

Torreon. Chihuahua
Ry. 434 and 435.

Mexico Onyx Quarry Co., New York City, 41 Wall St. Henry McCoy, pres.; W. H. Reynolds, secy. and
treas.; David J. Kelley, mgr. Cap. \$500,000. Kelley, onyx. Shaft, horse and hand. W. H. Kelley,
supt.

SUPPLEMENTARY LIST

OF

MINING COMPANIES AND OPERATORS

IN THE

REPUBLIC OF MEXICO

WHOM WE HAVE REASON TO BELIEVE ARE AT POINTS GIVEN, BUT WHO HAVE
FAILED TO FURNISH DESIRED DETAILED INFORMATION
FOR REGULAR LISTS

MEXICO
COLD AND SILVER

NAME	POST OFFICE
Palmatejo Mining Co.	Alamos
Princesa Gold Mining Co.	"
Mexican Copper Co.	Ario
Milford Gold Mining Co.	Arispe
Parissima Mining & Exploration Co.	Batman

NAME	POST OFFICE
Francisco M. Cogdilan.	Citotex
Mexican Ore Co.	"
Don Enrique Mining Co.	Cusahuatlich
Candelaria Mining Co.	Durango
Recompense & California	"
Mine	El Oro
Macias Mining Co.	Inde
D. V. Ferris	Los Machos
Via Cerro Gordo.	"
Bendols Mining Co.	Mapuna

NAME	POST OFFICE
Cia Minera de Santo Fe.	Matehuala
Pachuca Silver Mining Co.	Pachuca
Presena Mining Co.	Paral
Edgar G. Tuttle, esq.	San Felipe
Trueno Lopez.	San Luis Potosi
El Bolso Copper Co.	Santa Rosalia
Torreón Silver Copper Mining Co.	Torreón

BLAST FURNACES

ALABAMA

LOCATION, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, WHEN DIFFERENT FROM LOCATION OF WORKS, NAMES OF OFFICERS, PAID-UP CAPITAL STOCK, KIND OF FURNACE, NUMBER AND SIZE OF STACKS, ANNUAL CAPACITY IN TONS OF 2,000 POUNDS, NATURE OF OUTPUT, BRANDS, AND SELLING AGENTS.
TOWNS	AND	COUNTY	
Anniston		Calhoun	Woodstock Iron Co., W. G. Ledbetter, pres't., J. W. Stillwell, secy. and treas. Stephen N. Noble, mgr. Pd. up cap. \$800,000. Woodstock Nos. 1 and 4, charcoal and coke blast, 2 stacks, coke 75x16 feet, chat coal 20x12 feet, 20,000 tons, car wheel pig iron. Brands, coke "Anniston," charcoal "Woodstock." Selling agents, Rogers, Brown & Co., Cincinnati, Ohio, and L. E. Peterson & Co., Boston, Mass.
Bessemer		Jefferson	De Bardeleben Coal & Iron Co., H. F. De Bardeleben, pres't., David Roberts, v. pres't., Andrew M. Adger, secy. and treas., L. W. Johns, supt. Cap. \$18,000,000. De Bardeleben hot blast, 6 stacks 75x75 feet, 1 stack 12x60 feet, 20,000 tons, coke, hot metal and forge iron. Brand "De Bardeleben." Selling agents, Matthew Addy & Co., Cincinnati, Ohio, and Rogers, Brown & Co., New York City.
Birmingham		Jefferson	The Vanderbilt Steel & Iron Co., G. O. Vanderbilt, pres't., C. A. Meissner, v. pres't. and mgr. F. F. Ackermann, secy. and treas. Pd. up cap. \$10,000. Chat furnace, coke blast, 1 stack 65x14 feet, 20,000 tons, pig. Brand "Vanderbilt." Selling agents, Rogers, Brown & Co., Cincinnati, Ohio.
"	"	"	Williamson Iron Co., C. P. Williamson, pres't., H. G. Williamson, v. pres't., J. R. Simpson, secy. and treas. Pd. up cap. \$10,000. Williamson coke blast, 1 stack 65x14 feet, 20,000 tons, pig. Brand "Williamson." Selling agents, Chamberlain, Furney & Baird, Columbus, Ohio; Heikmann, Conser & Co., Louisville, Ky.
Gadsden		Etowah	Gadsden Iron Co., A. J. Crawford, pres't., J. W. Stewart, secy. and mgr. Cap. \$182,500. Gadsden, charcoal blast, 1 stack 12x60 feet, 10,000 tons, pig iron. Brands "Stewart" and "Gadsden."
Ironmouth		Talladega	Clifton Iron Co., J. G. Bush, pres't., Paul Roberts, secy. C. L. Pierson, treas. Cap. \$18,000. Clifton furnace, 1 stack, cut wheel pig iron, Brand "Clifton." Selling agents, Matthew Addy & Co., St. Louis, Mo., and Cincinnati, Ohio; C. L. Peterson & Co., Boston, Mass.
Jasper		Talladega	Jasper Iron Co., John W. Noble, pres't., W. D. Lyles, secy. and treas., A. E. Noble, supt. Pd. up cap. \$200,000. Jasper 1, charcoal blast, 1 stack 75x16 feet, 12,250 tons, car wheel pig. Selling agents, Geo. H. Hull & Co., Louisville, Ky.
Langdon		Cherokee	Alabama Ore & R. R. Co., P. D. Langdon, pres't., R. P. Lyles, secy. Cap. \$18,000. Langdon, 1 stack 65x14 feet, 10,000 tons, car wheel pig iron. Brand "Langdon." Selling agents, Rogers, Brown & Co., New York; Horstford & Plummer and W. D. Benning & Co.
Round Mountain		Cherokee	The Elliott P. G. Co., Gadsden, Ala., Round Mountain, charcoal and blast, 1 stack 12x60 feet, 6,000 tons, pig. Brand "Round Mountain." Selling agents, Rogers, Brown & Co., Cincinnati, Ohio.
Shelbyfield		Colbert	Lady Ensley Coal Iron & Ry. Co., W. M. Steel, pres't., Martin Ensley, v. pres't., Thos. D. Radcliffe, secy. and treas., Walter Moore, gen. mgr., J. A. Short, supt. Pd. up cap. \$1,000,000. Lady Ensley and Hat Co. Ensley, coke hot blast, 2 stacks 75x17 feet, 80,000 tons, hot metal, pig. Brand "Lady Ensley." Selling agents, Matthew Addy & Co., Cincinnati, Ohio, and St. Louis, Mo.
Shelby		Shelby	Shelby Iron Co., J. G. Bush, pres't., H. C. Cooper, secy., W. S. Garner, treas., J. E. W. Herby, asst. treas. Cap. \$18,000. Shelby hot blast, 2 stacks 12x60 feet, 10,000 tons, charcoal, car wheel pig iron. Selling agents, Matthew Addy & Co., Cincinnati, Ohio.
Teemish		Cherokee	Teemish Iron Co., F. N. Moore, pres't., J. W. Ommick, v. pres't., P. B. Warner, secy., S. J. Feuring, asst. mgr. Pd. up cap. \$200,000. Teemish, charcoal blast, 1 stack 65x14 feet, 15,000 tons, pig. Brand "Teemish." Selling agent, P. B. Warner, Cincinnati, Ohio.
Trussville		Jefferson	Trussville Furnace & Mining Co., R. D. Smith, pres't. and mgr., W. E. Smith, secy. and treas. Trussville, charcoal blast, 1 stack 65x14 feet, 20,000 tons, pig. Brand "Trussville." Selling agents, Rogers, Brown & Co., Cincinnati, Ohio.
Woodward		Jefferson	Woodward Iron Co., J. H. Woodward, pres't., S. Matthews, secy. Pd. up cap. \$100,000. Woodward, coke blast, 2 stacks each 75x17 feet, 75,000 tons, pig. Brand "Woodward."

CONNECTICUT

Canaan		Litchfield	Barnum, Richardson Co., Lime Rock, Conn., M. B. Richardson, pres't., C. W. Barnum, v. pres't., S. P. Loring, secy., P. S. Burrill, treas. Pd. up cap. \$200,000. Canaan furnace, charcoal blast, 1 stack each 12x60 feet, 15,000 tons, pig. Brand "Salsbury."
Kent		Litchfield	Kent Iron Co., Donald L. Warner, pres't., Geo. R. Bull, secy., John Hopson, treas., mgr. and supt. Cap. \$18,000. Kent, hot blast, 1 stack 12x60 feet, 5,000 tons, charcoal pig iron. Brands "Salsbury" and "Kent Iron."

GEORGIA

Columbus		Polk	Cherokee Iron Co., Wm. C. Frothingham, pres't., J. R. Ruff, secy. and gen. mgr., J. H. Frothingham, treas. Pd. up cap. \$500,000. Cherokee, charcoal blast, 1 stack 65x14 feet, 7,000 tons, hot metal, pig. Brand "Cherokee." Selling agents, Hall Bros. & Co., Louisville, Ky.
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ILLINOIS

Chicago		Cook	Chicago Furnace Co., Rookery Bldg., J. M. Flower, pres't., Irving I. Hart, secy. and treas., J. Henry J. Kelly, N. Collins, supt. Cap. \$18,000. Chicago, coke blast, 1 stack 17 x 50 feet, 50,000 tons, hot metal, and Bessemer pig iron. Brand "Furnace."
"	"	"	Illinois Steel Co., Rookery Bldg., Adams and La Salle sts., Jay C. Morse, pres't., W. H. St. John, S. Smith, v. pres'ts., H. A. Gray, secy., J. J. Stirling, treas., South, North and Union hot blast, 2 stacks, 50,000 tons, Bessemer pig, hot metal and mill pig, and spiegel. Selling agents, Peabodys, Brown & Co., tenth floor Rookery Bldg.

ILLINOIS (CONTINUED)

LOCATION, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE WHEN DIFFERENT FROM LOCATION OF WORKS, NAMES OF OFFICERS, PAID-UP CAPITAL, STOCK, KIND OF FURNACE, NUMBER AND SIZE OF STACKS, ANNUAL CAPACITY IN TONS OF 2,000 POUNDS, NATURE OF OUTPUT, BRANDS, BROWN & CO., TENTH TOWN AND COUNTY.
Joliet Ry. 26, 135, 142, 145, 245.	Will Illinois Steel Co., Chicago, Ill., Rookery Bldg., Adams and La Salle sts. Jay C. Morse, pres.; W. R. Stirling and H. S. Smith, v.-pres.; H. A. Gray, secy.; J. C. Stirling, treas. Joliet, hot blast, 3 stacks, 180,000 tons, Bessemer, foundry and mill pig and spiegel. Selling agents, Pickands, Brown & Co., tenth floor Rookery Bldg., Chicago.
South Chicago Ry. 42, 383, 585.	Cook Tropius Furnace Co., Chicago, Ill., 688 Rookery Bldg. Hay Walker, pres.; Charles F. Forster, secy. and gen. mgr.; T. H. Given, treas.; F. M. Kernan, supt. Pd-up cap. \$800,000. Tropius, coke blast, 1 stack 50x17 feet, 80,000 tons, pig. Brands "Tropius," "Sterling Scotch" and "Peerless." Selling agents, Forster, Barkham & Hawes, Chicago, Ill., 618 Rookery Bldg.

INDIANA

Brazil Ry. 146, 256, 563.	Clay Central Iron & Steel Co. Major Collins, pres. and gen. mgr.; A. S. Fairber, acting secy.; John H. Lewis, treas. Cap. \$1,500,000. Brazil, hot blast, 1 stack 63x16 feet, 12,000 tons, pig iron. Brand "Brazil."
Vigo Ry. 146, 170, 256, 563, 749.	Indiana Vigo Iron Co., Terre Haute, Ind. A. J. Crawford, pres.; J. P. Crawford, secy., treas. and supt. Pd-up cap. \$500,000. Vigo, coal blast, 1 stack 62½x13 feet, 12,000 tons, pig. Brand "Vigo."

KENTUCKY

Ashland Ry. 132, 499, 523, 537.	Boyd Ashland Coal & Iron Ry. Co. Douglas Putnam, pres. and gen. mgr.; John G. Peedles, v.-pres.; Robt. Peedles, secy.; E. C. Meigs, supt. Ashland, coal and coke blast, 2 stacks each 62x16 feet, 40,000 tons, pig. Brand "Ashland."
"	" Meigs & Russell Iron Co. John Russell, pres.; C. W. Meigs, secy.; Ashland National Bank, treas.; W. B. Seaton, mgr. and supt. Pd-up cap. \$250,000. Bellefonte, charcoal blast, 1 stack 34x10½ feet, 4,500 tons, pig. Brand "Bellefonte Foundry Pig Iron." Selling agents, Bacon, Flato & Co., Cincinnati, Ohio; Adams, Watkins & Co., Louisville, Ky.
"	" Norton Iron Works. Chas. H. Greene, pres.; Thos. M. Adams, v.-pres.; Edw. E. Seaton, secy.; John Russell, treas.; Geo. Carr, supt. Pd-up cap. \$295,000. Norton, coke blast, 1 stack 62x16 feet, 40,000 tons, pig. Brand "Norton." Selling agent, P. B. Warner, Cincinnati, Ohio, 18 Johnston Bldg.
Grand Rivers Ry. 449.	Livingston Grand Rivers Co., Boston, Mass., 64 Federal st. A. Blood, pres.; Thos. W. Lawson, v.-pres. and mgr.; Fred Joy, secy.; J. M. Searle, supt. Pd-up cap. \$300,000. Grand Rivers, charcoal blast, 2 stacks each 60x12 feet, 40,000 tons, pig. Brand "Grand Rivers."
Middlesboro Ry. 371, 408.	Jell The Watts Steel & Iron Syndicate, Ltd. Edmund H. Watts, pres.; Robt. Andrews, secy.; Edgar and Frank Watts, managing directors; Geo. L. Ross, mgr. Pd-up cap. \$1,250,000. Watts, coke, hot blast, 2 stacks 75x17 feet, 80,000 tons, pig. Brand "Watts."

MARYLAND

Baltimore Ry. 16, 17, 41, 42, 43, 528, 577, 804.	Baltimore Stickney Iron Co., 11 S. Gay st. Geo. H. Stickney, pres.; Wm. Harvey, secy.; Chas. W. Klippner, mgr. Cap. \$1,000,000. Blast furnace, 2 stacks 50x11 feet, 6,500 tons, charcoal pig iron. Brand "Stickney Iron." Selling agents, Reed, Stickney & Co., 11 S. Gay st., Baltimore, Md.
Catoctin Furnace Ry. 42	Frederick Catoctin Mountain Iron Co. Thos. Gorschuch, pres. and mgr.; Harry P. Gorschuch, secy. and supt.; Geo. Houck, treas. Deborah, coke blast, 2 stacks 50x12½ and 25x9 feet, 14,000 tons, pig. Brand "Catoctin." Selling agents, L. & R. Wester & Co., Philadelphia, Pa., 257 S. Fourth st.
Murkirk, Prince George's Ry. 42.	Chas. E. Collins. Murkirk, hot blast, 1 stack 30x15 feet, 7,000 tons, ear wheel and ordnance charcoal pig iron. Brand "Murkirk." Selling agents, C. L. Parson & Co., Boston, Mass.; A. W. Howe, 607 Drexel Bldg., Philadelphia, Pa.; Robinson & Orr, Pittsburg, Pa.

MICHIGAN

Detroit Ry. 96, 231, 232, 292, 299, 583, 599, 784	Wayne Detroit Iron Furnace Co., foot of Meldrum st. James McMillan, pres.; Hugh McMillan, v.-pres.; Ernest C. Wetmore, secy. and mgr.; Wm. C. McMillan, treas. Cap. \$1,000,000. Detroit, hot blast, charcoal, 1 stack 41x30 feet, 15,000 tons, Lake Superior charcoal pig iron. Brand "D. I. F." Selling agents, W. F. Jarvis & Co., Newberry Bldg., Detroit.
"	" Gaylord Iron Co., foot of Iron st. Chas. A. Kent, pres.; Wm. M. Gaylord, v.-pres. and treas.; Frank B. Gaylord, secy. and supt. Cap. \$1,000,000. Gaylord, closed top blast furnace, 1 stack 50x19 feet, 15,000 tons, charcoal pig iron. Brand "G. I. Co. Det."
"	" The Penninsular Iron Co., foot of Bellevue av. Theo. H. Eaton, pres.; Robt. Lutes, v.-pres.; Solon Burt, secy., treas. and mgr. Pd-up cap. \$200,000. Penninsular, charcoal blast, 1 stack 42x19 feet, 12,000 tons, pig. Brand "Penninsular."
"	" Union Iron Co. Austin Burt, pres.; Wm. Gerhauser, secy., treas. and mgr. Pd-up cap. \$200,000. Union, charcoal blast, 1 stack 46x10 feet, 15,000 tons, pig. Brand "U. I. Co. Det."
Elk Rapids Ry. 152.	Antioch Elk Rapids Iron Co. N. K. Fairbank, pres.; N. H. Noble, v.-pres. and mgr.; E. S. Noble, secy. and treas. Pd-up cap. \$600,000. Elk Rapids, charcoal blast, 1 stack 40x10 feet, 25,000 tons, pig. Brand "Elk Rapids." Selling agents, M. A. Hanna & Co., Cleveland, Ohio.
Frankfort Ry. 152	Muskegon Spring Lake Iron Co. J. M. Bean, pres.; C. F. Hsley, v.-pres.; J. C. Ford, secy. and mgr.; S. Marshall, treas. Pd-up cap. \$200,000. Spring Lake, charcoal blast, 1 stack 50x11 feet, 30,000 tons, pig. Brand "Spring Lake."
Harvey Ry. 159, 171	Marquette Northern Furnace Co., Marquette, Mich. J. M. Longyear, pres.; H. M. Kaufman, v.-pres.; J. G. Reynolds, secy.; J. M. Williams, treas.; E. S. Spurr, mgr. Northern, charcoal blast, 1 stack 50x10 feet, 20,000 tons, ear wheel pig. Brand "Northern." Selling agents, M. A. Hanna & Co., Cleveland, Ohio.
Ishtepmiz Ry. 159, 229	Marquette Deer Lake Company. W. H. Reed, pres.; treas. and mgr.; J. N. St. Clair, secy. Deer Lake, charcoal blast, 1 stack 8x16, 1 stack 9x19 feet, 12,000 tons, charcoal pig iron. Brand "Deer Lake." Selling agents, Chas. Hammond & Co., Chicago, Ill.

MICHIGAN—(CONTINUED)

LOCATION, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, WHEN DIFFERENT FROM LOCATION OF WORKS, NAMES OF OFFICERS, PAID-UP CAPITAL STOCK, KIND OF FURNACE, NUMBER AND SIZE OF STACKS, ANNUAL CAPACITY IN TONS OF 2,000 POUNDS, NATURE OF OUTPUT, BRANDS AND SELLING AGENTS.
Ishpeming, (Continued.)	Marquette	Chas. H. Schaffler, W. J. Ellison, supt. Cap. \$80,000. Excelsior, charcoal blast, 4 stack 50x30 feet, 10,000 tons, pig. Brand "Excelsior Furnace." Selling agents, Wm. T. Jarvis, Detroit, Mich.; Chas. Hunsford & Co., Chicago, Ill.
Marquette Ry. 229.	Marquette	Carp River Furnace Co., Detroit, Mich. Hiram A. Bart, pres., Theo. H. Eaton, v. pres., Solon Bart, secy., treas. and mgt. Pd. up cap. \$150,000. Carp River, charcoal blast, 1 stack 47½x10 feet, 12,000 tons, pig. Brand "Carp." Selling agent, Solon Bart, Detroit, Mich.
Newberry Ry. 229.	Essex	Newberry Furnace Co., Hugh McMillan, pres., W. L. McMillan, v. pres., Claude W. Case, secy. and mgt.; W. H. Anderson, treas. Pd. up cap. \$145,250. Newberry, charcoal blast, 1 stack 32x10 feet, 20,000 tons, pig. Brand "Vulcan." Selling agents, Wm. T. Jarvis & Co., Detroit, Mich.
Wyandotte Ry. 484, 106.	Wayne	Eureka Iron & Steel Works, Detroit, Mich., 2 Butler Bldg. Sidney A. Miller, v. pres. and secy.; W. A. Miller, treas.; J. S. Van Alstyne, mgt.; John Desmond, supt. Pd. up cap. \$320,000. Eureka, blast, 1 stack 55x12 feet, 25,000 tons, pig. Brand "Eureka."

MINNESOTA

Duluth Ry. 143, 229, 230, 261, 529, 721	St. Louis	West Duluth Furnace Co., Chicago, Ill.; Bookley Bldg., Charles Hunsford, pres.; John Coran, v. pres.; R. Floyd Finch, secy.; Kirk Hunsford, treas.; A. S. Bertholet, mgt. and supt. Pd. up cap. \$100,000. West Duluth, coke blast, 1 stack 75x17 feet, 45,000 tons, pig. Brand "West Duluth."
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MISSOURI

Midland Ry. 706.	Crawford	Midland Blast Furnace Co., St. Louis, Mo.; 10 Olive st. Wm. H. Lee, pres.; F. A. Hitehewsky, v. pres.; J. F. Fritts, secy. and mgt. Pd. up cap. \$100,000. Midland, charcoal blast, 1 stack 55x30 feet, 18,000 tons, pig. Brand "Midland."
St. Louis Ry. 445, 446, 476, 469, 563, 720, 784	St. Louis	Jupiter Furnace Co., 20 LaSalle Bldg. O. L. Harrison, pres.; O. W. McComb, v. pres.; W. O. Carr, treas. secy. and treas. Pd. up cap. \$200,000. Jupiter, coke blast, 1 stack 75x20 feet, 20,000 tons, pig. Brand "Jupiter."
Sligo Ry. 720.	Dent	Sligo Furnace Co., Hugh A. Crawford, pres. and treas.; Emerson J. Pooder, v. pres. and secy.; J. L. Pooder, supt. Pd. up cap. \$100,000. Sligo, charcoal hot blast, 1 stack 55x17 feet, 17,000 tons, pig. Brand "Sligo."

NEW JERSEY

Hackettstown Ry. 295.	Warren	Warren Iron Co., John P. Jones, pres.; John R. Bennett, mgt. Warren, anthracite and coke blast, 1 stack 50x14 feet, 15,000 tons, foundry pig. Brand "W."
Jersey City Ry. 418, 536, 540, 591	Hudson	Passaic Furnace Co., Wm. B. Brown, pres.; Chas. E. Springer, secy. and treas.; J. C. Sisco, mgt.; Fritz Gilmann, supt. Cap. stk. \$200,000. Passaic, Spiegel, 1 stack 40x14 feet, 6,000 tons, sp. 42½. Selling agents, Manning & Sargent, 111 Liberty st., New York City.
Oxford Ry. 295.	Warren	Oxford Iron & Coal Co., New York City; 72 Wall st. The Ohio S. S. S. pres.; John L. Hays, v. pres.; J. L. Hays, secy. and mgt.; A. P. Cobb, treas. Pd. up cap. \$200,000. Oxford, anthracite and coke blast, 1 stack 62x17 feet, 18,000 tons, rolling mill pig.
Phillipsburg Ry. 118, 209, 303, 561.	Warren	Andover Iron Co., Philadelphia, Pa.; 216 S. Third st. John R. Pol, pres.; Chas. Gilmann, secy. and treas.; Jos. T. Kent, supt. Cap. stk. \$200,000. Andover, iron waste, hot blast, 1 stack 75x17 feet, 35,000 tons, pig. iron. Brand "Andover." Selling agents, J. L. Hays & Co., 1000 Chestnut st., Philadelphia.
Port Crane Ry. 118, 309.	Morris	Joseph Wharton, Philadelphia, Pa.; Edward Kehy, mgt. Wharton, hot blast, 1 stack 75x17 feet, 5,000 tons, foundry and forge pig. iron. Brand "Wharton." Selling agents, H. W. Adams & Co., 50 Pine st., New York City.
Stanhope Ry. 206.	Sussex	Miscellaneous Iron Works, Philadelphia, Pa.; 25 S. Third st. John R. Pol, pres.; H. H. Watson, secy. and supt.; J. H. Hutton, mgt. Miscellaneous, charcoal blast, 2 stacks 50x17 and 70x18 feet, 5,000 tons, pig. Brand "M. I. W." Selling agent, J. C. Sisco, New York City.

NEW YORK

Charlotte Ry. 501, 648.	Montro	Charlotte Iron Works, A. G. Val S. pres.; J. L. Rowley, v. pres.; A. S. Carlock, secy. and treas.; Pd. up cap. \$100,000. Charlotte, coke blast, 1 stack 65x17 feet, 6,000 tons, foundry pig. Brand "C. I. W."
Chatham Ry. 302, 501.	Columbia	Chatham Furnace Co., C. S. Whitney, pres. and mgt.; H. P. Whitney, v. pres.; J. M. Fox, secy. and supt. Pd. up cap. \$80,000. Chatham, charcoal blast, 1 stack 40x14 feet, 6,000 tons, pig. Brand "Chatham."
Crown Point Ry. 106, 216.	Essex	Crown Point Iron Co., Chester Gray, mgt. pres.; H. M. Conshong, secy. and treas.; A. F. Tamm, v. pres. and supt. Pd. up cap. \$1,500,000. Crown Point, anthracite and coke blast, 2 stacks 70x17 and 70x18 feet, 20,000 tons, Bessemer pig. Brand "Crown Point." Selling agent, J. L. Hays & Co., New York City.
Elmhurst Ry. 205, 242, 303, 305, 518.	Chemung	Elmhurst Iron & Steel Rolling Mill Co., 722 Hatten st. James B. R. Phoenix, pres. and supt.; Jesse L. Craig, v. pres. and treas. Cap. stk. \$800,000. Elmhurst, hot blast, 1 stack 100x20 feet, 10,000 tons, pig. iron. Brand "Elmhurst."
Hudson Ry. 70, 367, 501	Columbia	Hudson Iron Co., John F. Collette, pres.; J. H. Stott, v. pres.; S. R. Rapp, secy. and treas.; S. C. M. Arthur, mgt.; David Barry, supt. Pd. up cap. \$750,000. Hudson, charcoal blast, 2 stacks 25x18 and 30x18 feet, 20,000 tons, pig. Brand "Hudson." Selling agent, J. C. Sisco, New York City.
Kirkland Ry. 505.	Oneida	Franklin Iron Manufacturing Co., Franklin Iron Works, N. Y.; 11 E. 87th st. pres.; W. A. Hogg, v. pres.; C. H. Smyth, mgt. and supt. Pd. up cap. \$2,000,000. Franklin, anthracite and coke blast, 1 stack 75x17 feet, 35,000 tons, soft pig. Brand "Franklin."

NEW YORK (CONTINUED)

LOCATION, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE WHEN DIFFERENT FROM LOCATION OF WORKS, NAMES OF OFFICERS, PAID-UP CAPITAL STOCK, KIND OF FURNACE, NUMBER AND SIZE OF STACKS, ANNUAL CAPACITY IN TONS OF 2,000 POUNDS, NATURE OF OUTPUT, BRANDS, AND SELLING AGENTS.
TOWN	AND	COUNTY	
Port Henry Ry. 213.	Essex	Port Henry Furnace Co., G. R. Sherman, pres.; W. C. Witherbee, v.-pres.; H. B. Willard, secy. and treas.; N. M. Langton, supt. Pd.-up cap. \$100,000. Port Henry, charcoal hot blast, 2 stacks each 6x16 feet, 10,000 tons, Bessemer pig. Brand "Port Henry." Selling agents, Witherbee, Sherman & Co., New York City, 46 Wall st.	
Saratoga (P. O. Standish) Ry. 124.	Clinton	Chateaugay Ore & Iron Co., Plattsburg, N. Y., Smith M. Weed, pres.; F. J. Dominick, v.-pres.; A. L. Tamm, secy. and mgr.; H. M. Christ, treas.; M. L. French, asst. mgr. Cap. stk. \$1,500,000. Standish, blast, 1 stack 60x12 feet, 12,000 tons. Brand "Chateaugay." Selling agent, F. J. Dominick, New York City, 21 Cortlandt st.	
Tonawanda Ry. 361, 563.	Niagara	Tonawanda Iron & Steel Co., Wm. A. Rogers, pres.; Archer Brown, v.-pres.; Geo. G. Hamilton, secy.; Wm. A. Gamble, treas.; W. B. Kerr, supt. Pd.-up cap. \$250,000. Niagara, coke blast, 1 stack 76x18 feet, 95,000 tons, foundry pig. Brand "Niagara." Selling agents, Rogers, Brown & Co., Boston, Mass., Buffalo, N. Y., and Philadelphia, Pa.	

NORTH CAROLINA

Greensboro	Guilford	North Carolina Steel & Iron Co., J. A. Odell, pres.; D. W. C. Benbow, v.-pres.; C. D. Benbow, secy. and treas.; J. D. Kase, mgr. and supt. Pd.-up cap. \$267,200. Carolina, charcoal blast, 1 stack 70x16 feet, 35,000 tons, pig. Brand "Carolina."
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OHIO

Bellaire	Belmont	Bellaire Nail Works, J. R. McCorroney, pres.; A. B. Carter, secy. and treas. Cap. stk. \$750,000. Bellaire, hot blast, 1 stack 75x16 feet, 80,000 tons, Bessmer pig iron. Brand "Bellaire."
Bloom Switch	Scioto	The Clare Iron Co., Portsmouth, Ohio, J. D. Clare, pres. and treas.; J. H. Simmonds, v.-pres.; E. H. Clare, secy. and supt. Pd.-up cap. \$100,000. Bloom, charcoal, 1 stack 34x10 feet, 3,000 tons, pig. Brand "Bloom." Selling agent, J. D. Clare, Portsmouth, Ohio.
Campbell	Lawrence	The Campbell Iron Co., John H. Moulton, pres. and secy.; John W. Campbell, v.-pres. and mgr.; J. H. Campbell, treas. Pd.-up cap. \$100,000. Mt. Vernon, charcoal blast, 1 stack 45x12 feet, 3,000 tons, pig. Brand "Mt. Vernon." Selling agents, Bacon, Flato & Co., Cincinnati, Ohio.
Canal Dover	Tuscarawas	The Penn. Iron & Coal Co., J. P. Burton, pres.; H. C. Davis, v.-pres.; H. C. Ream, secy.; S. W. Croxson, treas. and mgr.; Chas. Pifer, supt. Pd.-up cap. \$200,000. Dover, blast, 1 stack 6x16 feet, 30,000 tons, pig. Brand "Tuscarawas."
Cleveland	Cuyahoga	Union Rolling Mill Co., 502 Perry-Payne Bldg., S. W. Sessions, pres.; A. S. Upson, v.-pres.; H. H. Wyman, secy.; H. A. Fuller, treas. and mgr.; Willard Fuller, supt. Pd.-up cap. \$300,000. Emma, 1 stack 72x17 feet, 55,000 tons, foundry and pig. Brand "Emma." Selling agents, The Condit-Fuller Co., Cleveland, Ohio.
Hanging Rock	Lawrence	Meigs, Kyle & Co., E. B. Willard, pres. and mgr.; James Bull, secy. and treas. Pd.-up cap. \$300,000. Hamilton and Pine Grove, coke and charcoal, 2 stacks 66x16 and 33x10; feet, 25,000 tons coke pig and 5,500 tons charcoal pig. Brands "Hamilton" and "Pine Grove." Selling agents, Rogers, Brown & Co., Cincinnati, Ohio, James Colford, Pittsburg, Pa.
Jackson	Jackson	Globe Iron Co., Eben Jones, pres.; Elias Crandall, v.-pres., treas. and supt.; John E. Jones, secy.; L. T. Murfin, mgr. Pd.-up cap. \$92,000. Fulton, hot blast, 1 stack 52x14 feet, 7,000 tons, Scotch pig. Brand "Globe." Selling agents, W. R. Thomas, New York City, Chas. Hurd & Co., Chicago, Ill.
"	"	Star Furnace Co., R. Kahn, pres.; C. O. Brown, secy.; L. V. Brown, mgr. Star, blast, 1 stack 14x54 feet, 10,000 tons, pig iron. Brand "Star."
Lectona	Columbiana	Cherry Valley Iron Works, J. H. King, pres.; S. E. Welker, secy.; C. N. Schmick, treas. Pd.-up cap. \$250,000. Cherry Valley, blast, 1 stack 75x16 feet, 50,000 tons, foundry pig. Brands "Cherry Valley" and "Lectona."
"	"	Salem Iron Co., Pittsburg, Pa., cor. Wood st. and Sixth av., John McKeefrey, pres. and gen. mgr.; W. D. McKeefrey, v.-pres. and treas.; N. J. McKeefrey, secy.; P. W. Murphy, supt. Cap. stk. \$300,000. Granton, hot blast, 1 stack 14x54 and 1 stack 14x54 feet, 100,000 tons, coke pig iron, Bessmer, foundry and forge. Brands "Salem," "Allegheny" and "Salem." Selling agents, McKeefrey & Co., Lectona, Ohio, and Pittsburg, Pa.
Lowellville	Mahoning	Ohio Iron & Steel Co., Thos. H. Wells, pres.; John C. Wick, v.-pres.; R. Bentley, secy. and mgr.; F. H. Wick, treas.; W. S. McCombs, supt. Pd.-up cap. \$150,000. The Mary, blast, 1 stack 75x16 feet, 70,000 tons, Scotch pig. Brand "The Mary Ohio Scotch." Selling agents, Pickands, Mather & Co., Cleveland, Ohio, Pickands, Brown & Co., Chicago, Ill.; N. S. Bartlett & Co., Boston, Mass.
Madison	Jackson	Clare Duclint & Co., Rempel, Ohio. Linn Bentley, financial agent and supt. Pd.-up cap. \$40,000. Madison, charcoal hot blast, 1 stack 37x19 feet, 3,500 tons, pig. Brand "Madison."
Niles	Trumbull	Thomas Furnace Co., J. R. Thomas, pres.; J. M. Thomas, mgr.; W. Aubrey Thomas, supt. Thomas, blast, 1 stack 76x17 feet, 70,000 tons, Bessmer pig. Brand "Thomas."
Oak Hill	Jackson	Jefferson Furnace Co., Jos. J. Jones, secy.; Eben J. Jones, treas. and mgr.; Lot Davies, supt. Cap. stk. \$75,000. Jefferson, charcoal cold blast, 1 stack 36x11 feet, 30,000 tons, pig iron. Brand "Jefferson."
Steubenville	Jefferson	Jefferson Iron Works, S. Third st., S. K. Wallace, pres.; W. H. McInton, v.-pres.; Geo. F. Harden, secy. and treas.; John Kennedy, mgr. and supt. Cap. stock \$300,000. Jefferson, hot blast, 1 stack 17x50 feet, 82,555 tons, Bessmer pig iron. Brand "Jefferson."
"	"	Riverside Iron Works, Wheeling, W. Va., 1304 Main st., J. N. Vance, pres.; John D. Culbertson, secy. and treas.; F. J. Hoarne, mgr.; F. Spearman, supt. Cap. stk. \$1,500,000. Steubenville, hot blast, 1 stack 75x16 feet, 70,000 tons, pig iron. Brand "Riverside."
Wellston	Jackson	Wellston Furnace Co., Chicago, Ill., 70 Dearborn st., E. A. Hyde, pres.; Robt. Vierling, v.-pres.; J. F. Forsyth, secy. and treas.; J. C. Clift, mgr. Pd.-up cap. \$400,000. Wellston, coke 2 stacks each 52x13 feet, 28,000 tons, foundry pig. Brand "Wellston." Selling agents, Forsyth, Hyde & Co., Chicago, Ill., 18 and 70 Dearborn st.

OHIO (CONTINUED)

LOCATION, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE WHEN DIFFERENT FROM LOCATION OF WORKS, NAMES OF OFFICERS, PAID-UP CAPITAL STOCK, KIND OF FURNACE, NUMBER AND SIZE OF STACKS, ANNUAL CAPACITY IN TONS OF 2,000 POUNDS, NATURE OF OUTPUT, BRANDS, AND SELLING AGENTS.
TOWNS	AND	COUNTY	
Youngstown	Albioning		Brar Hill Iron & Coal Co., George Tod, prest.; Henry Tod, v. prest.; H. H. Stambaugh, secy. and treas.; J. G. Butler jr., mgr. Cap. stk. \$500,000. Grace Nos. 1 and 2, hot blast, 2 stacks 18x50 feet, 90,000 tons, pig iron.
"	"	"	The Youngstown Steel Co., 35 Central Square. Tod Ford, prest. and gen. mgr.; Paul Jones, v. prest.; John Stambaugh, secy. and treas.; Edw. L. Ford, supt. Pd. up cap. \$200,000. The Tod, coke, 1 stack 26x14 feet, 50,000 tons, Bessemer, foundry and mill. Brand "Youngstown wedge." Selling agents, H. G. Bravo, Pittsburg, Pa.; J. L. Hogan & Co., Philadelphia, Pa.; Tod, Stambaugh & Co., Cleveland, Ohio.
Zanesville	Muskingum		Ohio Iron Co., M. Churchill, prest.; E. B. Greene, v. prest.; John R. Cary, secy.; C. D. Greene, treas.; F. C. Greene, supt. Cap. stk. \$500,000. Hot blast, 1 stack 16x75 feet, 50,000 tons, Bessemer, foundry and gray forge pig iron.

OREGON

Oswego	Clackamas		Oregon Iron & Steel Co., Portland, Ore., 106 Third st. Theo. B. Wilcox, prest.; Martin Winch, v. prest.; J. Frank Watson, secy. and gen. supt.; Ladd & Tilton, treas. Cap. stk. \$500,000. Hot blast charcoal, 1 stack 26x15x10 feet, 15,000 tons, pig iron. Brand "Oregon." Selling agents, Falk & Saeget, 320 Mission st., San Francisco, Cal.; Northwestern Supply Co., Tacoma and Seattle, Wash.
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PENNSYLVANIA

Allentown	Lehigh		Allentown Iron Co., Philadelphia, Pa., 226 S. Third st. Joseph S. Harris, prest.; C. F. Howell, secy. and treas.; E. T. Olsen, supt. Pd. up cap. \$500,000. Allentown, 2 stacks each 60x17 feet, 70,000 tons, foundry pig. Brand "Allentown." Selling agent, E. Hill, Philadelphia, Pa., 226 S. Third st.
Belleville	Centre		The Valentine Iron Co., C. W. Gephart, prest.; Robt. Valentine, secy. and treas.; Wm. Kelley, supt. Pd. up cap. \$657,000. Valentine, hot blast, 1 stack 75x15 feet, 48,000 tons, foundry and gray forge pig. Brand "Valentine."
Bloomingsburg	Columbia		The Bloomingsburg Iron Co., L. S. Wintersteen, prest.; J. J. Brown, secy. and treas.; Josiah Ralston, mgr. Pd. up cap. \$100,000. Irondale, coke, 2 stacks 40x7 and 11x8 feet, 13,000 tons, pig. Brand "Irondale."
"	"		Wm. Need & Sons. Cap. \$100,000. Bloom, charcoal blast, 1 stack 76x14 feet, 50,000 tons, pig. Brand "Bloom."
Boiling Springs	Cumberland		Boiling Springs Iron Co., J. C. Richer, prest.; W. A. Mullin, secy. Cap. \$300,000. Boiling Springs, charcoal blast, 1 stack 40x12 feet, 500 tons, pig. Brand "High Grade Charcoal."
Carlisle	Cumberland		C. W. Ahl's Son. N. W. Ahl, mgr. Cap. \$100,000. Katherine, coke, 1 stack 70x12 feet, 14,000 tons, foundry pig. Brand "Katherine."
Catsauna	Lehigh		The Crane Iron Co., Philadelphia, Pa., 224 S. Fourth st. H. W. Hazard, prest.; James M. Hodge, secy. and treas.; Leonard Perckitt, supt. Pd. up cap. \$1,500,000. Crane Iron Works, coal and coke blast, 4 stacks, two 60x16 feet and two 75x18 feet, 100,000 tons, pig. Brands "Crane," "Castile" and "Mohican." Selling agents, Geo. T. Barvis & Co., Philadelphia, Pa., 312 Walnut st.
Chambersburg	Franklin		Bondbrake, Burkhardt & Co., Falling Spring, charcoal cold blast, 1 stack 60x5 feet, 5,000 tons, pig. Brand "Falling Spring."
Coplay	Lehigh		Coplay Iron Co., E. P. Wilbur, prest.; W. A. Wilbur, secy.; Horace Boyd, supt. Pd. up cap. \$200,000. Coplay, 2 stacks 70x15 and 50x16 feet, 10,000 tons, pig. Brand "Coplay." Selling agents, Duffell & Co., Philadelphia, Pa., 204 Walnut pl.; C. W. Gleason & Co., New York City, 96 Liberty st.
Danville	Montour		Grove Bros., Columbia, charcoal, 1 stack 50x14 feet. Brand "Columbia."
"	"		North Branch Steel Co., Philadelphia, Pa., Twenty-fifth st. and Washington av. Edw. Samuel, prest.; E. P. Howe, v. prest.; Chas. M. Griffith, secy.; Walter S. Massey, treas.; R. K. Folk, mgr.; John Hoge, endorser, supt. North Branch, hot blast, 1 stack 18x13 feet and 1 stack 60x16 feet, 20,000 tons, foundry, Bessemer and mill pig iron.
Emporium	Cameron		Summa-Union Iron & Coal Co., E. M. Parrott, prest.; Wm. H. Allen, secy. Hot blast coke furnace, pig iron. Lile at present.
Etna	Allegheny		Isabella Furnace Co., H. Kennedy, supt. Isabella, coke, 3 stacks, two 75x20 and one 75x16 feet, 180,000 tons, pig. Brands "Isabella," "Bessemer" "Foundry and Mill Iron."
Everett	Bedford		Joseph E. Thropp, Philadelphia, Pa., 119 S. Fourth st., Room 41. Chas. Lorne, supt. Everett, hot blast, 1 stack 18x75 feet, 42,000 tons, foundry pig iron. Brand "Everett." Selling agents, Jerome Keeley & Co., Philadelphia, 302 Walnut st.
Harrisburg	Dauphin		McIntuck & Co., 223 Market st. Cap. \$300,000. Paxton, anthracite and coke blast, 2 stacks 60x14 and 75x14 feet, 50,000 tons, pig. Brand "Paxton."
"	"		McIntuck Estate, 223 Market st. Cap. \$400,000. Swatara, Anthracite and coke blast, 1 stack 70x11 feet, 8,000 tons, pig.
Lebanon	Lebanon		I. & R. Moly. Lebanon Valley. Hot blast, 1 stack, 24,000 tons, pig. Brand "Lebanon Valley."
Maconago	Lehigh		Crane Iron Co., Philadelphia, Pa., 224 S. Fourth st. H. W. Hazard, prest.; Jas. M. Hodge, secy. and treas.; Leonard Perckitt, supt. Cap. stk. \$1,500,000. Maconago, hot blast, 1 stack 56x16 to 12,000 tons, foundry and Bessemer pig iron. Selling agents, Geo. T. Barvis & Co., 533 Walnut st., Philadelphia, Pa.
Mont Alto	Franklin		Mont Alto Iron Works. Edw. Weisting, supt. Hot blast charcoal, 1 stack, 12,000 tons, pig iron. Brand "Mont Alto."
New Castle	Lawrence		Crawford Iron & Steel Co., Wm. Patterson, prest.; W. F. Ross, secy. and mgr.; J. A. Crawford, treas. Pd. up cap. \$150,000. Neshaunuck, blast, 1 stack 78x17 feet, 75,000 tons, Bessemer pig. Brand "Neshaunuck."
"	"		Etna Iron Works, Ltd., Edwin N. Oehl, chairman, A. W. Thompson, secy. and treas. Cap. stk. \$700,000. Etna, hot blast, 2 stacks 18x75 feet, 70,000 tons, pig iron. Brand "Etna."

PENNSYLVANIA (CONTINUED)

LOCATION, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE WHEN DIFFERENT FROM LOCATION OF WORKS, NAMES OF OFFICERS, PAID-UP CAPITAL STOCK, KIND OF FURNACE, NUMBER AND SIZE OF STACKS, ANNUAL CAPACITY IN TONS OF 2,000 POUNDS, NATURE OF OUTPUT, BRANDS, AND SELLING AGENTS.	
TOWN	AND	COUNTY		
New Castle	Lawrence		Raney & Berger Iron Co., 150 Furnace St., L. Raney, pres., Geo. B. Berger, secy. and treas., Cap. stk. \$200,000. Hot blast, 2 stacks 17x80 feet, 60,000 tons, Bessemer pig iron. Brands "Norway," "Hecla," "Crown." Selling agent, Henry A. Adams, 177 Broadway, New York City.	
Newport	Perry		Junata Furnace & Foundry Co., Philadelphia, Pa., Beach and Marlborough sts., Alfred Marshall, pres.; P. Hestland, supt.; W. F. Young, chemist, Marshall, hot blast, 1 stack 6x14 feet, 20,000 tons, foundry pig iron. Brand "Marshall." Selling agent, C. T. Holbrook, Beach and Marlborough sts., Philadelphia, Pa.	
Parryville	Carbon		Carbon Iron & Steel Co., Ltd., Manch Chunk, Pa., M. S. Kennebec, chairman; H. H. Butler, secy. and treas.; H. R. Hall, mgr. and supt., Carbon, coke blast, 3 stacks 52x13, 52x16 and 45x16 feet, 75,000 tons, pig. Brands "Viking," "Perry" and "Carbon."	
Pittsburg	Allegheny		Moorhead-McCleane Co., Gen. S. Griseom, pres.; M. K. Moorhead, v.-pres.; Chas. R. Dallas, secy.; W. J. Moorhead, treas., Soho, hot blast, 1 stack 80x20 feet, 80,000 tons, pig iron. Brand "Soho."	
"	"		Shoenberger, Spicer & Co., Fifteenth and Etna sts., Shoenberger, coke, 2 stacks 75x15 $\frac{1}{2}$ and 75x14 $\frac{1}{2}$ feet, 113,400 tons, Bessemer pig.	
Port Kennedy	Montgomery		Montgomery Iron Co., Abraham S. Patterson, pres.; Joseph S. Patterson, secy., treas. and mgr., Pd-up cap. \$150,000. Montgomery, charcoal blast, 1 stack 65x13 $\frac{1}{2}$ feet, 25,000 tons, pig. Brands "Anon Bessemer" and "Montgomery." Selling agents, Pilling & Crane, Philadelphia, Pa., Bulfinch Bldg.	
Reading	Berks		Reading Iron Co., 518 Washington St., Geo. F. Baer, pres.; Thomas Varrington, secy.; F. C. Smink, treas. and gen. mgr.; Albert Broden, supt., Keystone and Reading, charcoal, 4 stacks, two 55x15, one 50x15 and one 65x14 $\frac{1}{2}$ feet, 100,000 tons, foundry and mill iron. Brands "Harrison" and "Reading."	
Ridgelysburg	Bedford		Kemble Iron Co., Alex. Kunkel, pres.; C. H. Scott, secy. and treas.; Wm. Lander, mgr., Hot blast, 2 stacks 60x15 feet, 30,000 tons, pig iron. Brand "Kemble."	
Rittenhouse Gap	Berks		Hartzell Concentrating Co., Ltd., Philadelphia, Pa., Bulfinch Bldg., W. K. Hartzell, chairman; F. I. Crane, secy., W. S. Pilling, treas., Pd-up cap. \$40,000. Red-Norton separator, 10,000 tons, high grade iron. Brand "Hartzell." Selling agents, Pilling & Crane, Philadelphia, Pa., Bulfinch Bldg.	
Rockhill Furnace	Huntingdon		Rockhill Iron & Coal Co., Philadelphia, Pa., 320 Walnut st., Wm. A. Ingham, pres.; Edw. Roberts, jr., v.-pres.; J. E. Haverstick, secy. and treas.; A. W. Sims, mgr.; Charles Cramer, supt., Pd-up cap. \$1,500,000. Nos. 1 and 2, hot blast coke, 2 stacks 65x17 and 65x15 feet, 30,000 tons, large and foundry pig. Brand "Rockhill."	
Saranom	Lackawanna		Lackawanna Iron & Steel Co., New York City, 52 Wall St., E. F. Hatfield, pres.; C. E. Maltzer, 2d v.-pres.; H. V. Vailre, secy. and asst. treas.; L. S. Mohratt, gen. mgr.; A. H. Lee, supt., Lackawanna, hot blast, 1 stack 75x20 feet, 1 stack 65x17 feet, 1 stack 70x15 feet, 1 stack 75x15 feet, 1 stack 75x18 $\frac{1}{2}$ feet, 125,000 tons, pig iron. Brand "Lackawanna."	
Sharpsville	Metzger		Perkins & Co., Ltd., S. Perkins, mgr. and mgr.; L. C. Hanna, secy. and treas.; George D. Devitt, supt., Pd-up cap. \$50,000. Mahel, charcoal, 2 stacks each 65x15 feet, 30,000 tons, pig. Brand "Mahel." Selling agents, M. A. Hanna & Co., Cleveland, Ohio.	
South Bethlehem	Northampton		Bethlehem Iron Co., Robt. F. Lindemann, pres.; Robt. H. Sayre, v.-pres. and gen. mgr.; A. S. Schropp, secy.; C. O. Brunner, treas.; John Fritz, gen. supt.; E. W. Ravenport, asst. supt., Cap. stk. \$4,000,000. Bethlehem, hot blast, 3 stacks 70x16 feet, 1 stack 65x15 feet, 1 stack 70x19 feet, 1 stack 65x17 feet, 1 stack 65x14 feet, 1 stack 65x15 feet, 200,000 tons, pig iron. Brand "Bethlehem."	
Steelton	Dauphin		Pennsylvania Steel Co., Philadelphia, Pa., Luther S. Bent, pres.; F. W. Wood, mgr.; E. C. Felton, supt.; Edw. E. Knapp, asst. supt., Nos. 1, 2, 3 and 4, Spiegel and Bessemer, 4 stacks, two 70 feet, one 55, and one 80 feet, 130,000 tons. Brand "Spiegel & Bessemer Pig."	
Suedeland	Montgomery		Richard Heckscher & Sons, Philadelphia, Pa., 238 S. Third st., Suede, charcoal blast, 2 stacks 72x14 and 80x15 $\frac{1}{2}$ feet, 80,000 tons, mill and foundry pig. Brand "Suede."	
Temple	Berks		Temple Iron Co., Reading, Pa., George F. Baer, pres.; Thos. Varrington, secy.; F. C. Smink, treas.; Albert Broden, mgr., Temple, charcoal, 1 stack 55x19 $\frac{1}{2}$ feet, 25,000 tons, pig. Brand "Temple."	

TENNESSEE

Chattanooga	Hamilton	George Mining, Manufacturing & Improvement Co., Atlanta, Ga., 38 Wall St., J. S. Brown, pres.; J. M. Brown, v.-pres.; L. A. Brown, secy. and treas.; F. M. Connor, gen. mgr., Hot blast, 12,000 tons, pig iron.
Citico	Monroe	Citico Furnace Co., Chattanooga, Tenn., Montague Bldg., H. S. Chamberlain, pres.; Wm. E. Raht, secy.; O. E. Wells, supt., Pd-up cap. \$200,000. Citico, coke blast, 1 stack 68x16 feet, 40,000 tons, foundry pig. Brand "Citico."
Rockwood	Roane	Roane Iron Co., Chattanooga, Tenn., Montague Bldg., H. S. Chamberlain, pres.; Orion I. Hurlbutt, secy.; Willard Warner, jr., supt., John Patton, furnace supt., Pd-up cap. \$1,000,000. Rockwood, coke blast, 2 stacks 65x14 and 65x15 feet, 45,000 tons, mill and foundry pig. Brand "Rockwood." Selling agents, Watson, Wood & Co., New York, 405, 2d Broadway, Husbord & Fischer, Cincinnati, Ohio, Dunham, Keady & Co., Chicago, Ill., Myrtle W. Addy & Co., St. Louis, Mo.

TEXAS

New Birmingham	Cherokee	The New Birmingham Iron & Improvement Co., Richard L. Coleman, pres. and gen. mgr.; Samuel D. Mills, supt., Pd-up cap. \$1,200,000. Fannie Belle, charcoal blast, 1 stack 68x14 feet, 15,000 tons, car wheel and foundry pig. Brand "Fannie Belle."
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VIRGINIA

LOCATION, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, WHEN DIFFERENT FROM LOCATION OF WORKS, NAMES OF DIRECTORS, PAID-UP CAPITAL STOCK, KIND OF FURNACE, NUMBER AND SIZE OF STACKS, ANNUAL CAPACITY IN TONS OF 2000 POUNDS, NATURE OF OUTPUT, BRANDS AND SELLING AGENTS.	
TOWNS	AND	COUNTY		
Big Stone Gap Ry. 408, 657.		Wise	Appalachian Steel & Iron Co., E. J. Bird, Jr., pres't., L. J. Bird, V. pres't., and gen. mgr., M. I. Ridenour, secy. and treas., Pd. up cap. \$400,000. Appalachian coke blast, 2 stacks 75x16 feet, 60,000 tons, foundry pig. Brand "BS-G." Selling agents, Bacon, Plato & Co., Cincinnati, Ohio.	
Buena Vista Ry. 132, 525.		Rockbridge	Buena Vista Iron Co., C. M. Clark, pres't., A. T. Barclay, V. pres't., G. F. Baker, secy. and treas., F. B. Richards, mgr., Buena Vista coke blast, 4 stacks 70x16 feet, 12,000 tons, pig. Brand "Buena Vista." Selling agents, Jere Abbott & Co., New York City, Ed. D. Smith & Co., Philadelphia, Pa.	
Chen Wilton Ry. 132.		Botetourt	D. S. Cook, Wrightsville, Pa., T. H. Kaniff, supt., Pd. up cap. \$80,000. Princess coke, hot blast, 1 stack 60x16 feet, 16,000 tons, pig. Brand "Princess." Selling agent, Wilton Coke, Wrightsville, Pa.	
Goshen Ry. 132, 796.		Rockbridge	Virginia Iron & Railway Co., H. D. Turney, pres't., Lee Chamberlain, V. pres't., C. J. Johnston, secy. and treas., W. H. Wilhams, supt., Rockbridge hot blast, 1 stack 58x16 feet, 22,000 tons, pig. iron. Brand "Rockbridge." Selling agents, Chamberlain, Turney & Baird, Columbus, Ohio, St. Louis, Mo., Chicago, Ill., and Philadelphia, Pa.	
Iron Gate Ry. 132.		Allegheny	Allegheny Iron Co., New York City, 29 Broadway, T. C. Jones, mgr., Allegheny hot blast, 1 stack 13x55 feet, 25,000 tons, pig. iron. Brand "Allegheny." Selling agent, Mettewether, Jones, Richmond, Va.	
Low Moor Ry. 132.		Allegheny	Low Moor Iron Co. of Virginia, L. C. Means, pres't., Frank Lepman, V. pres't., N. M. Bell, secy., F. A. Low, treas., N. G. Morris, mgr., Cap. \$1,000,000.	
Lynchburg Ry. 132, 533, 622.		Campbell	F. Bird Grubb, Edward P. Lee, mgr., Lynchburg hot blast, 1 stack 12x60 feet, 18,000 tons, pig. iron. Brand "Lynchburg." Selling agents, Edmund D. Smith & Co., Philadelphia, Pa.	
Newport Ry. 523.		Jones	J. Wilcox Brown, owner, L. P. Williams, supt., Cap. \$200,000. Sinking Creek, charcoal blast, 1 stack 45x16 feet, 2,000 tons, pig. Brand "Sinking Creek."	
Roanoke Ry. 523.		Roanoke	Roanoke Iron Co., Joseph H. Sells, pres't., James F. Porter, secy. and treas., Henry King, mgr., Pd. up cap. \$100,000. Roanoke charcoal blast, 1 stack 50x16 feet, 20,000 tons, pig. Brand "Roanoke." Selling agents, Crocker Bros., New York City, 42 Cliff St.	

WASHINGTON

Trondale Ry. 522.	Johnson	Fraser Sound Iron Co., San Francisco, Cal., S. M. Morgan, pres't., Geo. W. Prescott, pres't., John L. McCall, V. pres't., Abraham Ellis, secy. and treas., Pd. up cap. \$800,000. Trondale charcoal blast, 1 stack 50x16 feet, 12,000 tons, pig. Brand "Trondale."
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WEST VIRGINIA

Berwood Ry. 132, 531.	Marshall	Riverside Iron Works, Wheeling, W. Va., J. H. Martin, pres't., J. N. Ayres, V. pres't., John D. Cook, secy. and treas., F. J. Heffner, mgr., Wheeling hot blast, Cap. \$1,200,000. Riversides hot blast, 1 stack 75x16 feet, 20,000 tons, pig. iron. Brand "Riversides."
Trondale P. O. and Ry. Independence 42.	Preston	N. M. Morgan, Cap. \$200,000. Trondale hot blast, 1 stack 60x16 feet, 10,000 tons, pig. iron.
Wheeling Ry. 132, 535, 534, 581, 582.	Ohio	Wheeling Steel & Iron Co., Cap. \$1,800,000. Belmont hot blast, 1 stack 65x16 feet, 20,000 tons, Bessemer pig. iron. Brand "Belmont."

WISCONSIN

Ashland Ry. 143, 449, 525, 527.	Ashland	Ashland Iron & Steel Co., Milwaukee, Wis., J. M. Canfield, pres't., R. L. A. H. Hild, pres't., F. H. E. Goetz, V. pres't., W. H. Hinkle, secy. and treas., New York City, mgr., L. F. D. Jones, secy. and treas., Pd. up cap. \$2,000,000. Hunka charcoal blast, 1 stack 60x16 feet, 40,000 tons, pig. iron. Brand "Hunka." Selling agents, Rogers, Brown & Co., Chicago, Ill., and Rogers, Brown & Co., New York City, Chicago, Ill.
De Pere Ry. 140, 151.	Brown	National Furnace Co., Henry C. Smith, pres't., H. S. Richards, V. pres't., Eugene Smith, secy. and treas., W. L. Brown, treas., Pd. up cap. \$800,000. National charcoal blast, 1 stack 47 1/2 x 16 feet, 2,000 tons, pig. iron. Brand "National." Selling agents, Pickens, Brown & Co., Chicago, Ill., and Rogers, Brown & Co., Chicago, Ill.
Fond du Lac Ry. 141, 150, 527.	Fond du Lac	Wisconsin Furnace Co., Chicago, Ill., 70 Dearborn St., E. A. Hild, pres't., J. F. Smith, secy. and treas., W. H. Nelson, mgr. and supt., Pd. up cap. \$1,200,000. Fond du Lac charcoal blast, 1 stack 60x16 feet, 15,000 tons, malleable and cast iron pig. Brand "Wisconsin." Selling agents, Rogers, Brown & Co., Chicago, Ill., and 70 Dearborn St.
Ironton Ry. 150.	Sauk	Pom. Mountain Ore & Furnace Co., G. W. Andrews, pres't., H. C. Green, V. pres't., J. C. O. Green, treas., G. W. Andrews, mgr., Sauk charcoal blast, 1 stack 60x16 feet, 10,000 tons, pig. Brand "Sauk."
Mayville Ry. 141.	Dodge	Northwestern Iron Co., Milwaukee, Wis., J. N. A. Insman, pres't., Fred M. Brown, secy. and treas., L. C. Spencer, V. pres't., W. K. Pickman, secy. and treas., L. F. D. Jones, V. pres't., L. C. Jones, supt., Cap. \$1,000,000. Mayville hot blast, 1 stack 65x16 feet, 40,000 tons, pig. iron. Brand "Mayville." Selling agents, Rogers, Brown & Co., Chicago, Ill., and Rogers, Brown & Co., New York City, Chicago, Ill.
Milwaukee Ry. 141, 150, 449, 451, 480.	Milwaukee	Illinois Steel Co., Chicago, Ill., Rogers, Brown & Co., Chicago, Ill., V. pres't., J. C. Morris, pres't., W. R. Smith, mgr. and H. S. Smith, V. pres't., H. A. Gray, supt., J. C. Smith, secy. and treas., M. J. Edwards, secy. and treas., 10,000 tons, Bessemer pig. iron, and malleable pig. and spool. Selling agents, Pickens, Brown & Co., 70 Dearborn St., Chicago, Ill.

NOVA SCOTIA

LOCATION, RAILWAYS, WATER ROUTES AND SHIPPING POINT			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE WHEN DIFFERENT FROM LOCATION OF WORKS, NAMES OF OFFICERS, PAID-UP CAPITAL STOCK, KIND OF FURNACE, NUMBER AND SIZE OF STACKS, ANNUAL CAPACITY IN TONS OF 2,000 POUNDS, NATURE OF OUTPUT, BRANDS, AND SELLING AGENTS.	
TOWN	AND	COUNTY		
Bridgeville (Ry. 325).	Pictou	Pictou	Pictou Charcoal Iron Co., Ltd., New Glasgow, Nova Scotia. W. B. Moore, pres.; D. R. Grant, secy., and treas.; E. A. Sjostedt, mgr. Pd.-up cap. \$50,000. Pictou, charcoal blast, 1 stack 50x11 ft., 7,000 tons, car wheel and malleable pig.	

MEXICO

Durango (Locals).	Durango	Durango	Durango Steel & Iron Co., Des Moines, Iowa. James Callahan, pres.; Geo. Crane, v.-pres.; Geo. W. Baker, secy.; A. Holland, treas. and registrar; Don. L. Lopez Nogales, atty.; J. S. McCaughran, engr. Pd.-up cap. \$3,000,000. Durango, charcoal blast, 1 stack and 3 puddling furnaces, 2,000 tons, pig and bar. Selling agents, Stahlknecht & Co., Durango, Mex.	
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COLORADO (CONTINUED)

LOCATION, RAILWAYS, WATER ROUTES AND SHIPPING POINT	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE WHEN DIFFERENT FROM LOCATION OF WORKS, NAMES OF OFFICERS, PAID-UP CAPITAL STOCK, KIND OF FURNACE, NUMBER AND SIZE OF STACKS, ANNUAL CAPACITY IN TONS OF 2,000 POUNDS, BRANDS, AND NATURE OF OUTPUT.
TOWNS AND COUNTIES	
Leadville, Lake (Continued.)	Harrison Reduction Works, smelters of gold, silver, lead and copper ores. (See St. Louis Smelting & Refining Co., St. Louis, Mo.)
" "	Public Sampling Works, H. H. Norton, mgr.; P. P. Seltzer, supt. Samplers and buyers of gold, silver, lead and copper ores.
Pueblo, Pueblo Ry. 26, 142, 215, 460, 776.	The Colorado Smelting Co., A. Eilers, pres't, and gen. mgr.; R. W. Raymond, v.-pres't.; H. C. Cooper, secy.; W. S. Gurnee, secy.; A. S. Dwight, supt. Pd.-up cap. \$500,000. Shaft furnace process, with roasting furnaces, 5 stacks 42x36 inches hearth area, 85,000 tons, base bullion and copper matte.
" "	Philadelphia Smelting & Refining Co., M. Guggenheim jr., pres't.; Wm. Guggenheim, v.-pres't.; S. Guggenheim, treas.; Edw. Guggenheim, gen. mgr.; A. Bahr, supt. Pd.-up cap. \$7,250,000. Blast furnace, lead smelter, 8 stacks, 42x120 inches, 15,000 tons, base bullion. (See also Monterey, Mex.)
" "	The Pueblo Smelting & Refining Co., M. D. Thatcher, pres't.; W. F. Havenmeyer, v.-pres't.; S. R. Ritchie, secy, and treas.; E. W. Allen, gen. mgr.; E. F. Mathersoll, supt. Pd.-up cap. \$1,678,200. Blast furnaces, 12 stacks, 25,000 tons, base bullion, silver, gold, lead and copper.
Watkins, Shoshone Ry. 529, 776.	Northwestern Sampling & Milling Co., Spokane, Wash., Rooms 39 and 40 Zeigler Bldg. Jos. E. Boss, pres't.; Geo. D. Potter, v.-pres't.; Ernest C. Arnold, secy, and treas.; Geo. D. Potter, mgr. Cap. stk. \$100,000. Pioneer Sampling Works, samplers of gold, silver, lead and copper ores.

IDAHO

Anaconda, Kane Ry. 135, 148, 150, 245.	Chicago & Anaconda Smelting & Refining Co., Chicago, Ill., The Temple, 184 La Salle st., J. B. Arnold, pres't.; Wm. H. Van Arsdel, v.-pres't.; H. I. Higgins, 2d v.-pres't.; John A. Knapp, secy.; H. H. De Loss, treas.; E. F. Enrich, mgr. Cap. stk. \$2,000,000. Shaft, furnaces, 20,000 tons, gold, silver, pig lead and copper matte. Brands of lead "Anaconda Refined," "Anaconda" and "Chicago." (See adv., page 11.)
Chicago, Cook Ry. 142, 146, 383, 26, 145, 145.	Chicago & Anaconda Smelting & Refining Co., The Temple, 184 La Salle st., J. B. Arnold, pres't.; Wm. H. Van Arsdel, v.-pres't.; H. I. Higgins, 2d v.-pres't.; John A. Knapp, secy.; H. H. De Loss, treas.; E. F. Enrich, mgr. Cap. stk. \$2,000,000. Shaft, furnaces, 25,000 tons, gold, silver, pig lead and copper matte. Brands of lead "Anaconda Refined," "Anaconda," "Chicago." (See adv., page 11.)
" "	Chicago Copper Refining Co., 621 Phenix Bldg. Smelters and refiners of copper matte. (See adv., page 11.)
" "	National Smelting & Refining Co., 520 and 521 Phenix Bldg. Barton Sewell, pres't, and treas.; Marshall F. Holmes, v.-pres't, and secy.; F. B. F. Rhodes, supt. Smelters and refiners of ore and base bullion. (See adv., page 546.)
" "	Walburn-Swenson Co., 1520 Mountain Block. A. W. Walburn, pres't.; M. Swenson, secy. Experimental concentration works and assay laboratory. (See adv., page 547.)
La Salle, La Salle Ry. 135, 142, 319.	Matthiessen & Hegeler Zinc Co., E. C. Hegeler, pres't.; F. W. Matthiessen, secy. Pd.-up cap. \$426,600. Zinc furnaces, 15,000 tons, spelter. Brand "M. & H. Zinc Co."

KANSAS

Baker, Crawford (P. O. Pittsburg) Ry. 26, 348, 499, 720.	W. & J. Lanyon, Pittsburg, Kan. Six furnaces, 3,000 tons, zinc spelter. Brand "W. & J. Lanyon."
Galeton, Cherokee Ry. 348, 720.	American Smelter Co., St. Louis, Mo., 322 Pine st., L. B. Stephenson, pres't.; E. W. Humphrey, v.-pres't, and mgr.; F. F. Espenschied, secy, and treas.; Richard Baker, supt. Pd.-up cap. \$200,000. Zinc smelter, 6 blocks, 1,544 retorts, 6,000 tons, zinc spelter. Brand "American Eagle." Selling agents, John Wahl Commission Co., St. Louis, Mo.

MISSOURI

Old Mines, Washington Ry. 460.	Union Mining & Smelting Co., St. Louis, Mo., C. B. Burnham, pres't.; C. A. Davis, secy.; G. W. Chubbott, treas.; Alex. Harrison, supt. Pd.-up cap. \$800,000. Blast furnaces, 2 stacks 12x15 feet, 4,000 tons, pig lead. Brand "Old Mines Lead Co."
St. Louis, St. Louis Ry. 729, 460, 318, 145.	St. Louis Sampling & Testing Works, 1225 and 1227 Spruce st. Complete plant for sampling and testing ores. (See adv., page 546.)
" "	St. Louis Smelting and Refining Co., Howard Station. Cap. stk. \$2,000,000. Smelters and producers of gold, silver, lead and electrolytic copper. Branches, Harrison Reduction Works, Leadville, Colo., and Rio Grande Smelting Works, Socorro, N. M. (See adv., page 10.)

MONTANA

Castle, Meagher Ry. Townsend 529.	Cumberland Mining & Smelting Co., Chas. E. Severance, pres't.; Arthur Young, vice-pres't.; R. H. Minty, secy.; J. L. Fraser, treas.; A. J. Buncke, mgr. Cap. stk. \$500,000. Water jackets, 1 stack 48x36 inches, 1 stack 36x30 inches, 4,800 tons, lead and silver bullion. Brand "C. M. & S. Co."
Last Helena, Lewis & Clarke Ry. 293, 529.	United Smelting & Refining Co., A. S. Hewitt, pres't.; Wm. N. Cromwell, v.-pres't.; H. C. Cooper, secy.; W. S. Gurnee, treas.; A. Eilers, gen. mgr.; H. Suhl, mgr.; A. L. Dean, supt. Cap. stk. \$1,530,000. Samplers of gold, silver, lead and copper ores.
" "	United Smelting & Refining Co., A. S. Hewitt, pres't.; Wm. N. Cromwell, v.-pres't.; H. C. Cooper, secy.; W. S. Gurnee, treas.; A. Eilers, gen. mgr.; H. Suhl, mgr.; A. L. Dean, supt. Cap. stk. \$1,530,000. East Helena, 4 stacks 36x36 inches, 75,000 tons, base bullion and copper matte. Brand "United Sm. & Ref. Co." Selling agents, National Smelting & Refining Co., Chicago, Ill.

MONTANA (CONTINUED)

LOCATION, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE WHEN DIFFERENT FROM LOCATION OF WORKS, NAMES OF OFFICERS, PAID-UP CAPITAL STOCK, KIND OF FURNACE, NUMBER AND SIZE OF STACKS, ANNUAL CAPACITY IN LOSS OF 2,000 POUNDS, BRANDS, AND NATURE OF OUTPUT.
TOWN	AND	COUNTY.	
Glendale, Ry. 529.		Beaverhead	Hecla Consolidated Mining Co., Indianapolis, Ind., John Thomas, pres.; W. H. Talbott, v.-pres.; John McArthur, secy.; John C. Wright, treas.; H. Knippenberg, gen. mgr.; Pd. up cap. \$1,500,000. Water jackets, 3 stacks, base bullion, gold, silver and lead. Samuel A. Barber, supt.
Great Falls, Ry. 232, 233.		Cascade	United Smelting & Refining Co., A. S. Hewitt, pres.; Wm. N. Cromwell, v.-pres.; H. C. Cooper, secy.; W. S. Gurnee, treas.; A. Elders, gen. mgr.; H. Shurr, mgt. A. L. Dean, supt. Cap. stk. \$1,500,000. Samplers of gold, silver, lead and copper ores.
"		"	United Smelting & Refining Co., A. S. Hewitt, pres.; Wm. N. Cromwell, v.-pres.; H. C. Cooper, secy.; W. S. Gurnee, treas.; A. Elders, gen. mgr.; H. Shurr, mgt. A. L. Dean, supt. Cap. stk. \$1,500,000. Great Falls, 4 stacks 42x36 inches, 50,000 tons, base bullion and copper matte. Brand "United Sm. & Ref. Co." Selling agents, National Smelting & Refining Co., Chicago, Ill.
Helena, Ry. 253, 329.		Lewis and Clarke	F. S. Public Sampling Co., Power Bldg., S. Braden, pres. and mgt.; E. D. Ferguson, secy. and treas.; E. B. Braden, supt. Pd. up cap. \$75,000. Samplers and buyers of gold, silver, lead and copper ores, 60,000 tons.

NEVADA

Austin, Ry. 489.		Lander	W. J. Chamberlain & Co., ore buyers and samplers. See Denver, Colo.
Carlin, Ry. 692.		Elko	W. J. Chamberlain & Co., ore buyers and samplers. See Denver, Colo.
Springmont, Ry. 392.		Elko	Juniper Consolidated Mining & Smelting Co., J. F. Dennis, pres. and mgt.; W. M. Bond, v.-pres.; W. N. Bond, secy. and treas. Pd. up cap. \$50,000. Water jacket, smelting furnace, 2 stacks, 22,000 tons, base bullion.

NEW MEXICO

Deming, Ry. 26, 692.		Grant	Deming Ore Co., Theo. J. Van Wazer, v.-pres.; George J. F. Jones, v.-pres.; W. B. Lewis, secy. and treas.; J. A. Martin, supt. Cap. stk. \$7,000. Samplers of gold, silver, lead, copper and zinc ores, 20,000 tons.
Hillburo, Ry. 26.		Santa Fe	Standard Gold Mining & Milling Co., Miami, Inds., Mine, 1,000 ft. by Black, Jas. C. Stout, pres.; H. D. Stocke, v.-pres.; Geo. L. Mathan, secy.; M. P. Schlotfeld, treas.; Nicholas Gaudin, mgt.; Wm. Kemp, supt. Pd. up cap. \$200,000. Matte furnace, smelter, 15,000 tons, copper matte, gold, silver and copper. Brand "Standard." See also Pacific Smelting & Refining Co., Pueblo, Colo.
Sacramento, Ry. 26.		Sacramento	Rio Grande Smelting Works, smelters of 20,000 tons of S. See St. Louis, St. Paul & Refining Co.

NEW YORK

Lockport, Ry. 501, 502.		Niagara	Cowles Electric Smelting & Aluminum Co., F. W. Matthiessen, pres.; A. H. Cowles, v.-pres.; H. W. Power, secy.; A. L. Ochocki, treas.; F. J. Davis, supt. Produces and refines aluminum. Brand, Cowles aluminum.
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SOUTH DAKOTA

Deadwood, Ry. 88, 208, 274.		Lawrence	Deadwood & Deland's Smelting Co., Wm. Edgar Deland, W. H. Scott, pres.; W. G. Penn, secy. and Joseph Smith, treas.; Franklin R. Carpenter, mgt. Pd. up cap. \$50,000. Blast furnace, 3 stacks, lead and lead bullion, gold, silver, lead and copper.
Rapid City, Ry. 274.		Pennington	Black Hills Mining & Smelting Co., Robt. H. Thompson, pres. and mgt.; Wm. Dunn, v.-pres. and secy.; A. W. Bell, secy.; Donald Dennis, supt. Cap. stk. \$8,000,000. Blast furnace, 20,000 tons, 20,000 tons.

OREGON

Laurelton, Ry. 529.		Multnomah	Potlatch Smelting & Refining Works, Portland, Ore., George J. East and Oakley, John McArthur, v.-pres.; Chas. Hoegde, v.-pres.; W. A. Buchanan, secy.; Ralph R. Bush, gen. mgt. and treas.; S. Chas. supt. Pd. up cap. \$600,000. Lead smelter, water jacket, 2 stacks base bullion, silver, gold, 20,000 tons, lead, lead.
Portland, Ry. 529, 547, 692, 776.		Multnomah	Washington Reduction Co., Box 34, D. P. Thompson, pres.; Fred A. Hadden, v.-pres.; 700,000 lbs. base bullion, secy.; H. C. Smith, treas.; Luther W. Goss, mgt. Pd. up cap. \$600,000. Smelter, 20,000 tons, base bullion.

PENNSYLVANIA

TOWNS	LOCATION, RAILWAYS, WATER ROUTES AND SHIPPING POINT	COUNTY	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE WHEN DIFFERENT FROM LOCATION OF WORKS, NAMES OF OFFICERS, PAID-UP CAPITAL STOCK, KIND OF FURNACE, NUMBER AND SIZE OF STACKS, ANNUAL CAPACITY IN TONS OF 2,000 POUNDS, BRANDS, AND NATURE OF OUTPUT.
Chesler	Delaware		Crown Smelting Co., Geo. N. Grumbach, pres.; mgr. and supt.; Frank Butts, v.-pres.; Henry T. Davis, secy. and treas.; Cap. stk. \$500,000. Pd-up cap. \$2,000. Recovering and crucible furnaces, 2 stacks 20x30 inches, 1 45 feet, 1,800 tons. Crown and Phosphor bronze and brass. Brand "Crown."
Mansfield	Allegheny		Pennsylvania Lead Co., Pittsburg, Pa., 620 Wood st., J. E. Schwartz, pres.; B. W. Doyle, v.-pres.; J. L. Schwartz, secy.; H. E. Anderson, treas.; Geo. Fauner, supt. Cap. stk. \$1,000,000. Blast and reverberatory furnaces, 4 stacks 38x100 inches, 30,000 tons, pig lead, copper and fine gold and silver. Brands "Penn'a Ref'd" and "Penn'a Lead Co."
New Kensington	Westmoreland		Pittsburg Reduction Co., Pittsburg, Pa., 116 Water st., Alfred E. Hunt, pres.; Chas. M. Hall, v.-pres.; Geo. H. Chapp, secy.; W. S. Mitchell, treas.; A. V. Davis, supt. Electrolytic smelter, 6 pots, 6x4x3 feet, 75 tons, metallic aluminum.

TEXAS

El Paso	El Paso		Mexican Ore Co., Sheldon Block, H. A. True, mgr. Samplers and buyers of gold, silver, lead and copper ores, bullion and furnace products.
Laredo	Webb		Mexican Ore Co., H. A. True, mgr. Samplers and buyers of gold, silver, lead and copper ores, bullion and furnace products.

UTAH

Park City	Summit		R. Mackintosh, Salt Lake City, Utah, Box 1145. Pd-up cap. \$25,000. Park City Sampling Mill, samplers of gold, silver, lead and copper ores.
St. George	Washington		The Dixie Mining & Smelting Co., John Pymor, pres.; R. C. Lund, v.-pres. and mgr.; S. A. Pymor, secy. and treas. Pd-up cap. \$125,000. Dixie, water jacket, 1 stack 36 inches, copper, 325 tons.
Sandy	Salt Lake		R. Mackintosh, Salt Lake City, Utah, Box 1145, A. J. Cushing, mgr. and supt. Cap. \$25,000. Pioneer Sampling Mill, gold, silver, lead and copper, 182,500 tons. See also Park City Sampling Mill.
Salt Lake	Salt Lake		The Conklin Sampling Works, F. O. Harn, pres. and treas.; C. B. Markland, secy. and supt. Pd-up cap. \$14,000. Samplers of gold, silver, lead and copper ores.
"	"		Mingo Smelting Co., J. E. Schwartz, pres.; Wm. Reid, secy.; F. H. Officer, treas.; Fritz Wolf, supt. Cap. stk. \$200,000. Blast, 7 stacks 36x120 inches, 110,000 tons, pig lead and copper and fine gold and silver.

WASHINGTON

Everett	Shoshone		Puget Sound Reduction Co., Joseph L. Colby, pres. and treas.; Charles T. Rand, secy.; Alton L. Dickerson, consulting engineer; Wm. C. Butler, gen. mgr. Pd-up cap. \$200,000. Water jacket, 3 stacks, 42x120 inches, 75,000 tons. Base bullion.
Ruby	Okanogan		Washington Reduction Co., Portland, Ore., 265, Morrison st., D. P. Thompson, pres.; Jonathan Bourneum, secy.; H. C. Stratton, treas.; Luther Wagner, mgr. and supt. Cap. stk. \$100,000. Gold, silver, lead, water, to stamps and concentrator.
Tacoma	Pierce		Tacoma Smelting & Refining Co., Geo. Browne, pres.; Paul Schulze, v.-pres.; Richard Briggs jr., secy.; Walter Oakes, treas.; W. R. East, mgr.; F. W. Clark, supt. Pd-up cap. \$1,000,000. Blast furnace, 2 stacks 34x54 inches, 40,000 tons. Lead bullion and copper matte.

BRITISH COLUMBIA

Revelstoke-West Kootenay			Kootenay Smelting & Trading Syndicate Ltd., London, Eng., 31 Lombard st., L. R. C. Boyle, pres.; Will. Fink, Bdby, secy.; F. Rosset, mgr. Cap. stk. \$200,000. Shaft, furnace, water jacket, 1 stack 36x72 inches, 15,000 tons, lead, silver, bullion, copper matte. Kootenay.
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MEXICO

Janney	Chihuahua		St. Louis & Zapatos Ore Co., St. Louis Mo., P. O. Box 665, Geo. J. Wanless, agent. Samplers of gold, silver, lead and copper ores. (See St. Louis Smelting & Refining Co., St. Louis.)
Monterrey	Coahuila		Compania Minera Fundidora Alamosa, Patrio Minero, pres.; Francisco Armandaz, v.-pres.; Adolfo Zambrano, secy.; Remondo Berardi, treas.; Newton R. Wilson, mgr.; Elwood J. Wilson, supt. Pd-up cap. \$4,000,000. City M. T. & A. "Monterrey." Silver and lead, 4 stacks, 15,000 tons, bullion. Brand "M. T. & A. M." Selling agents, Eugene Kelly & Co., New York City.
"	"		The Great National Mexican Smelting Co., City of Mexico, Calle San Juan de Letran No. 43, Apartado Postal No. 722, Sol. Guggenheim, pres.; Simon Guggenheim, v.-pres.; W. Guggenheim, secy. and treas.; A. H. Danforth, general manager; T. S. Austin, supt. Geo. D. Barron, general agent, City of Mexico. Cap. stk. \$1,000,000. La Gran Fundicion Nacional Mexicana, blast and roasting furnaces, 6 roasters, 20x6 inches, 4 roasters, 40x120 inches, 200,000 tons, base bullion, silver, gold, copper and lead. Brand "G. N. M. S. Co." Selling agents, M. Guggenheim & Sons, 45 to 49 Cedar st., N. Y.
S. Luis Potosi	S. Luis Potosi		Compania Metalurgica Mexicana, New York City, 44 Pine st., N. Witherell, pres.; R. S. Towne, v.-pres.; A. Foster Higgins, treas.; O. C. Brown, mgr.; F. Cozen, supt. Water jacket furnace, 10 stacks, 40x120 inches, 185,000 tons, lead bullion.

MINING, MECHANICAL AND ELECTRICAL ENGINEERS,
ASSAYERS, GEOLOGISTS, METALLURGISTS,
MINE INSPECTORS AND MINERAL LAND SURVEYORS

ALABAMA			TOWN AND COUNTY		NAME
TOWN AND COUNTY		NAME	Process	Material	
Aldrich	Shelby	W. F. Aldrich, mining engineer			F. B. JACOBS , C. E., U. S. mineral surveyor, mines examined and reported on desirable mining property for sale.
Anniston	Calhoun	William Makemson, analytical chemist and assayer.	Tombstone	Cochise	Wm. F. St.anton, mining engineer.
"	"	G. S. Patterson, cor. Noble and Fley, ninth sts., mining and civil engineer.	Tucson	Pima	THEO. B. COMSTOCK , mining and metallurgical engineer, reported on, acted as consulting engineer, specialty, electric applications.
Birmingham	Jefferson	Alfred F. Bragstad, 50 N. Twentieth st., mining engineer and chemist	"	"	R. A. Johnson, U. S. surveyor-general
"	"	N. B. Smith, chemist			

ARKANSAS

Hosburg	Jefferson	E. M. Tutwiler, mining engineer	Elmer C. Anderson, Jr.	W. S. Abbot, mining engineer
Coalingburg	Jefferson	Frederic Tordman, mining engineer, S. L. & S. Co.	Carl Hoff	J. Johnson, mining engineer, Stephens Co., Cal.
Frontera	Lathrop	Thos. Cobble King, mining engineer and superintendent	John C. H. Sullivan	E. P. S. Van Arman, mining and consulting engineer
Piedmont	Callahan	A. M. Lloyd, M. S., chemist Southern Refractive Mining Co.	Edith Reed	Pulaski John C. Bonner, state geologist
Pratt Mines	Jefferson	Chas. E. Bowton, mining engineer	"	Frank W. Coffey, Jr., Machine Shop, mining engineer, assayer and chemist
"	"	Andrew J. Reddy, C. E. and M. E.	"	
University	Encinitas	C. Wilford Hayes, assistant geologist U. S. Geological Survey		CALIFORNIA
"	"	Henry McAlley, assistant state geologist and chemist		
"	"	Wm. B. Phillips, Ph. D., professor of chemistry and metallurgy	Alvin C.	Alvin C. Allen, Asst. Supt. Railroad, mining engineer and metallurgist
"	"	Eugene A. Smith, state geologist		

CONCLUSION

	ALASKA	Address	Position	Remarks
Juneau	WINTHROP W. FISK , B.S., mining engineer and geologist, University of Wash., Wash., D.C.; Wash. State, Boston, Mass.; Gold properties especially; mines examined and reported on; also, gas, iron, prop., development of mines and machinery needed.	Box 257	Juneau	Summit, B. C. St., Pleasant, A. prop., forest, mining, and oil, all Alaska, former U. S. G. S.
Sitka	Oswell T. Potter, U. S. geologist and excellent surveyor, general.	Chenise Camp, Sitka	Chenise	C. A. J. WATERMAN , mining engineer.
		French Creek	Seward	Wichita, Kan., oil, iron, gas, zinc, etc.

ARIZONA

Campbell	Assoc.	John H. Campbell, mining engineer and chemist.	Grass Valley	Assoc.	Thos. F. Lockhart, analytical chemist and assayer.
Copper Basin	Assoc. part.	F. O. Chase, mining engineer.	"	"	L. A. Watson, mining engineer.
Florence	Panel	ALBERT T. COLTON, M. E. , U. S. deputy mineral surveyor, civil engineer and topographer, chief engineer of Florence Canal Co.	Knoxville	Napier	A. M. Mallan, mining engineer.
Globe	Genl.	Arthur L. Walker, mining engineer.	Los Angeles	Los Angeles	FRANK ALDERMAN CARBUTT , "Oil Creek" mining engineer and managing committee. "Specimen quality" impossible to be obtained, prices excessive, no change in conditions and no development shown.
Harrisburg	Panel	JOHN MCCASEY , metallurgical, mining and mechanical engineer, mines examined and reported on.	"	"	John C. Gadsden, M. E., Route 1, Lemp, Iowa assayer, U. S. and foreign services.
Mammoth	Panel	GEORGE H. BARNHART , mining engineer and metallurgist, mines examined and reported on, specialty, mine management.	John L. Phelps, M. E., Lemp, Iowa.	"	
Ore Blaine	Panel	C. W. KEMPTON , mining engineer.	Alfred P. Stewart, M. E., U. S. Surveyor, U. S. mineral surveyor.	"	

TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
Lower Lake, Lake	L. Evans, U. S. deputy mineral surveyor.	S. Francisco, S. Francisco	<i>(Continued.)</i>
Nevada City, Nevada	W. F. Englebright, mining engineer.		
"	" CARL HESSE , assay office of J. J. Ott, mining engineer; mgr. Odin Gold & Silver Mining Co., Cal.; late supt. of the Royal Saxon Smelting Works, Friedberg, Germany; Pericles Lead Smelting Co., Greece; Atlanta Nickel Co., Ltd.; and Collins del Lobo Mines, Spang, Old Telegraph Smelting Works, Utah; Gregory Consolidated Mining Co. and Clark's Copper Smelter, Montana, La Trinidad, Id.; Mexico. Examination and management of mines and reduction-works a specialty.	"	" HORACE B. CALE , 40 California st., consulting, mechanical and electrical engineer; formerly professor of mechanical engineering at the Stanford University. Specialties, steam engineering, electric lighting and power transmission.
"	" W. W. Waggoner, U. S. deputy mineral surveyor.	"	" L. Gilson, 211 Sansome st., mining engineer and mine manager.
"	" James J. Ott, 30 Main st., assayer.	"	" JOHN H. HAMMOND , 124 Sansome st., civil and mining engineer.
Newcastle, Placer	Wm. B. Gester, civil engineer.	"	" Eugene Hoefler, 1712 Stockton st., mining engineer and metallurgist.
Nimshew, Butte	George C. Higgins, superintending engineer.	"	" CHAS. F. HOFFMANN , 307 Sansome st., mining engineer, superintendent for the Mines d'Or du Forest Hill Divide, Mines de Golden River.
Oakland, Alameda	E. W. ROBERTS , 924 Moss av., mining engineer, supt. Carson's Creek Mining Co.	"	" WM. J. IRELAN JR. , Masonic Bldg., state mineralogist State Mining Bureau.
Ogilly, San Diego	H. W. Blaisdell, mining engineer.	"	" MARK B. KERR , 402 Front st., mines examined and construction of railroads.
Ophir, Placer	Francis H. La Valle, practical mining expert.	"	" W. S. KEYES , Pacific Union Club, mining engineer, metallurgist, consulting expert.
"	" James Oliver, mining engineer.	"	" JOHN LEECHMAN , 708 California st., gold mine management and investigations.
Oroville, Butte	Thos. W. Beece, U. S. deputy mineral surveyor.	"	" C. A. LUCKHARDT , 23 Stevenson st., mining engineer, assayer and metallurgist; mines examined and reported upon; practical tests made; establishing the proper treatment of all ores a specialty. Established 1892. Laboratory and works, 23 Stevenson st.
Redding, Shasta	J. M. Gleanes, Fairview Farm, mine superintendent and civil engineer.	"	" D. Ernest Melliss, A. M., Ph. D., 524 Sacramento st., C. and M. E.
"	" R. G. Hart sr., mining engineer.	"	" Wm. H. Pratt, U. S. surveyor-general.
"	" Wm. M. James, mining superintendent and engineer.	"	" THOS. PRICE & SON , 524 Sacramento st., assayers, mining and metallurgical engineers.
"	" E. A. Zoellin, cor. North and Court, civil and mining engineer, assayer.	"	" Chas. D. Rhodes, 610 Commercial st., consulting engineer.
San Ardo, Monterey	MARTIN A. LATHROP , mining engineer and metallurgist.	"	" C. A. Steinfeldt, care of L. Falkeman, State Deposit Bldg., mining engineer and metallurgist.
San Bernardino, San Bernardino	Burr Russell, 529 E. St., U. S. deputy mineral surveyor.	"	" Robert Stevenson, 207 Larkin st., civil and mining engineer.
San Diego, San Diego	Rayhns Cadwallader, 732 Boston av., U. S. deputy mineral surveyor.	"	" R. B. SYMINGTON , 337 Seventeenth st., mining engineer and assayer, engineer Black Diamond Coal Co.
"	" Frank Robbins, 904 Fourth st., mining engineer and metallurgist.	Shelby, Contra Costa	H. H. Webb, mining engineer and metallurgist.
"	" Clarence D. Sprigg, 904 Fourth st., assayer.	Sulphur Creek, Colusa	GEORGE V. NORTHEY , mining and mechanical engineer.
S. Francisco, S. Francisco	J. Murray Bailey, 18 Post st., mining engineer.		
"	" M. P. Ross, 309 California st., mining and milling engineer.		
"	" ROSS E. BROWNE , 307 Sansome st., Room 14, mining and hydraulic engineer.		
"	" CONNOR & CRANT , 203 California st., hydraulic engineers and engineers. (See adv., page 9.)	Amethyst, Saguache	FIELD & MACNUTT , P. O. Box 562, engineers and assayers, U. S. deputy mineral surveyors.
"	" A. Arlene Cunningham, 144 Croville Bldg., analytical and consulting chemist.	"	" Inzoldby & Arnold, 47 Main st., civil and mining engineers.
"	" W. C. DODD , Union Iron Works, hydraulic engineer, specialty water power.	Aspen, Pitkin	Chas. E. Anderson, mining engineer.
"	" L. N. DOUCHERTY , 64 California st., Rooms 3 and 4, practical miner and mining engineer. Twenty-eight years' experience. Investors' confidential agency.	"	" Alonzo F. Bardwell, M. E., 315 Cooper av., assayer and chemist.
"	" R. R. ECKART , Rooms 2 and 3, 217 Sansome st., mechanical engineer.	"	" C. Leonard Brown, 14 Keene Block, deputy mineral surveyor.
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COLORADO

TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
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TOWN AND COUNTY		NAME	TOWN AND COUNTY		NAME
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TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
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CONNECTICUT

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[illegible]

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Received 1957-05-21. Accepted 1957-06-10. Printed 1957-07-10. Published by the American Institute of Mining and Metallurgical Engineers, New York, N. Y., U. S. A. Copyright © 1957 by American Institute of Mining and Metallurgical Engineers, New York, N. Y., U. S. A.

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J. S. CAREY, 122 Unity Bldg., Chicago

CITIZENSHIP

Atlanta	John J. O'Callaghan, 144 Kimball House, 1001 College St., and Mining College	1906, analysis of metals, for 6000 lbs. of lead, 1000 lbs. of antimony, and 1000 lbs. of tin; also, 1000 lbs. of lead, 1000 lbs. of tin, and 1000 lbs. of antimony.
"	H. H. Brothers, 65 Georgia Nat. Bk. Bldg., and Mining College	1906, analysis of metals, for 6000 lbs. of lead, 1000 lbs. of antimony, and 1000 lbs. of tin; also, 1000 lbs. of lead, 1000 lbs. of tin, and 1000 lbs. of antimony.

110 N. J. K. D.

Boise City	Adm. John R. Hastings, C. I. and M. E.	Chas. E. Selig, V. Chas. E. Selig, V. Chas. E. Selig, V.
"	" W. M. Mott, L. S. and J. C. Mott, L. S.	Chas. E. Selig, V. Chas. E. Selig, V. Chas. E. Selig, V.

Butke Shoshone **F. R. CULBERTSON**, mining en-
gineer, 241 E. 2d St., Butte, Mont.

Chavton, C. and H. M. Ples, 1991. The importance of

TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
Chicago, Cook	J. W. EDWARDS , 87 Washington st., 7, 2, 3, 34 U. S. Express Bldg., mining engineer.	Petersburg, La. Menard	Frank V. Alkire, First and Market, mining and civil engineer.
" " "	F. H. Foote, 5815 Madison av., supt. Illinois Steel Co.'s furnaces.	South Chicago, Cook	Geo. T. Dougherty, Ninety-fourth st. and Lake Shore, chemist and assayer.
" " "	CILBERT H. COODHUE , Room 107 Chamber of Commerce Bldg., analytical chemist and mining engineer.	" " "	F. B. F. Rhodes, M. E., Ninety-fourth st. and Lake Shore, metallurgist and superintendent.
" " "	Fred A. Grätzer, 145 Loomis st., chemist, assayer and mining engineer.	" " "	Jasper Whiting, metallurgist.
" " "	ALFRED CUILLAUME , 215 Dearborn st., electrical and mining engineer, assayer and analytical chemist. (See adv., page 11.)	Springfield, Sangamon	John Keay, 1417 S. Grand av., mining engineer.
" " "	Victor C. Heikes, 409 Ellis av., assayer and chemist.	" " "	Joshua Lindahl, state geologist.
" " "	WILLIAM HOSKINS , 81 S. Clark st., assayer, analytical chemist, mining engineer. (See adv., page 11.)	" " "	A. H. Worthen, director geological survey of Illinois.
" " "	J. M. Howells, 171 La Salle st., hydraulic engineer.	Streator, La Salle	E. A. Graves, M. E., 308 East Main st.
" " "	E. E. JOHNSON , C. E. and M. E., S. E. cor. Canal and Randolph sts., hydraulic and mechanical engineer.	Wilmington, Will	A. A. CHARLTON , mining engineer.
" " "	Karl L. Lehmann, 113 Adams st., civil engineer and architect.	INDIANA	
" " "	John S. MacGinnis, 108 and 110 E. Randolph st., mining engineer.	Brazil, Clay	P. J. Mooney, mining engineer Brazil Block Coal Co.
" " "	MANN S. TATARIAN , assayers and mining experts. Laboratory and office 106 and 107, 363 Randolph st. Mines examined and reports made for owners of purchasers; estimates for improvements.	" " "	Oliver Watkins, 10 Meridian st., mining and civil engineer.
" " "	MARINER & HOSKINS , 81 S. Clark st., assayers, chemists and mining engineers. (See adv., page 11.)	Cannelton, Perry	Geo. Minto, civil and mining engineer.
" " "	MILTON MOSS , 449 Ellis av., mining engineer, metallurgist, mines examined.	Evansville, Vanderburg	Jas. D. Saunders, Court House Bldg., civil and mining engineer.
" " "	Nelson W. Perry, 829 Monmouth Bldg., electrical and mining engineer.	Indianapolis, Marion	Maurice Thompson, state geologist.
" " "	John N. Pott, 224 N. Union st., civil and mining engineer.	Oakland City, Gibson	John R. Troutman, Lock Box 43, mining and mechanical engineer.
" " "	RATTLE, NYE & HOLLIS , 1242 The Rookery, analytical chemists and mining engineers also Cleveland, O.	IOWA	
" " "	JOHN A. ROEBLING'S SONS CO. , 171 Lake st., mining engineers.	Des Moines, Polk	Thomas Banks, mine inspector, first district.
" " "	C. H. Ross, 125 S. Sangamon st., mining engineer.	" " "	Floyd Davis, E. M., Ph. D., state chemist and mining engineer.
" " "	Frank A. Ross, Fulton and Union sts., mining engineer.	" " "	James Gildroy, mine inspector, second district.
" " "	John K. Schert, 129 Dearborn st., civil and mining engineer.	" " "	Morgan G. Thomas, mine inspector, third district.
" " "	Wm. L. Smith, 100 Washington st., civil engineer and contractor.	Ottumwa, Wapello	J. T. Beard, P. O. Box 318, mining and civil engineer.
" " "	GEORGE W. STURTEVANT JR. , 501 Chamber of Commerce Bldg., civil and hydraulic engineer; special attention given to development of water powers for hydraulic mining, city water supplies, etc.	KANSAS	
" " "	Jacob T. Wainwright, P. O. Box 434, metallurgical engineer.	Argentine, Wyandotte	CURTIS ALEXANDER , mining engineer and metallurgist. Permanent address, Maryville, Nodaway Co., Mo.
" " "	WALBURN-SWENSON CO. , 152 Monmouth Bldg., assay laboratory for testing ores. (See adv., page 57.)	" " "	John H. Allen, supt. Kansas City Smelting & Refining Co.
" " "	Thompson Hudson, inspector of mines, second district.	Gallena, Cherokee	John R. Hodgdon, Mann St., Stone's Bldg., civil and mining engineer.
Massa, St. Cl.	John G. Massie, inspector of mines, fifth district.	Lyons, Rice	JESSE AINSWORTH , M. E., supt. Lyons Rock Salt Co.
Perry, Prec.	James Fleet, inspector of mines, third district.	Sangamon, Cherokee	John T. Stewart, state inspector of coal mines.
KENTUCKY			
" " "	" " "	Ashland, Boyd	W. H. Kemler, chemist Ashland Steel Co.
" " "	" " "	" " "	MEYER SCHAMBERG , analytical chemist and mining engineer.
" " "	" " "	Central City, Muhlenberg	T. C. du Pont, M. E.
" " "	" " "	Frankfort, Franklin	C. J. Norwood, inspector of mines.
" " "	" " "	Frenchburg, Menifee	W. T. Dennis, M. E., Indian Creek Coal Mines.

TOWN AND COUNTY	NAME
Grand Rivers, Livingston	WM. B. PHILLIPS , metallurgist and mining engineer.
Middlesboro	J. C. McK. Richardson, mining engineer.
"	JOHN SANDERSON , analytical chemist and assayer.
"	A. R. Strachan, mining engineer and metallurgist.
Olympia	Bath Winchester Dickerson, mining engineer.
Owensboro	Davess Akop & Griswold, Fourth and Frederick sts., civil and mining engineers.
French Orchard, Lawrence	H. H. Chamberlayne, mining engineer.
Pineville	Bell F. E. Jackson, civil engineer and surveyor.
Whitesville	Davess Charles Wilkey, mining engineer and metallurgist.

LOUISIANA

New Orleans	Olemiss LAFAYETTE D. CARROLL , 47 Canondelet st., mechanical and electrical engineer; gravity planes, wire rope haulage.
"	" F. F. Claussen, U. S. mint, assayer.
"	" Chas. B. Wilson, U. S. surveyor.
Opelousas	St. Landry George O. Elms, civil engineer.

MARYLAND

Baltimore	Baltimore William Glenn, 148 Black st., mining engineer and chemist.
"	" Milner P. Elliot, 210 E. Lexington st., civil engineer.
Longmeadow	Allegany Dunstan S. Smith, mining engineer.
Oakland	Garrett R. F. Browning, state mine inspector.
Sparrows' Point, Baltimore	Daval Baker, mining engineer.
"	" Francis T. Penrock, P. O. Box 77, mechanical engineer.
"	" Arnold K. Reese, 408 East 83d, mining engineer.
"	" Nathan C. G. Robertson, mining engineer.
"	" Morris Weis, mining engineer.

MASSACHUSETTS

Boston	Suffolk ARTHUR B. BROWNE , 110 Water st., mining engineer, assayer and chemist.
"	" Davenport & Williams, 107 Tremont st., chemical engineers.
"	" WINTHROP W. FISK , R. S., 257 Washington st., mining engineer and geologist; Western office and laboratory, Denver, Alaska, coal properties a specialty; mines examined and reported on, advice given on proper development of mines and machinery needed.
"	" A. W. & E. B. Locke, 35 State st., mining engineers.
"	" CHARLES O. PARSONS , 77 State st., mining engineer.
"	" Stephen P. Shaples, S. R., 13 Broad st., assayer and analytical chemist.
"	" George F. Swan, care of Institute of Technology, civil engineer.

TOWN AND COUNTY	NAME
Boston	Suffolk Henry J. Williams, 101 Tremont st., chemical engineer.
Dorchester	Suffolk EDWARD D. PETERS JR. , Percival av., mining engineer and metallurgist, specialty, copper.
Reading	Middlesex W. H. Nash, mining engineer, assayer and metallurgist.

MICHIGAN

Ann Arbor	Washtenaw Wm. H. Petter, M. E., professor in University of Michigan.
Bay City	Bay John Kinnell, 822 Wilson st., mining engineer.
Bessemer	Cogebie Clarence M. Ross, mining engineer, district mine inspector.
Cabinet	Houghton Frederick N. Benson, mining and electrical engineer.
Champion	Macquett C. S. Barber, chemist, Champion Port Co.
Crystal Falls	Iron John Kellerschlag, mining engineer and chemist.
Detroit	Wayne J. V. CAMPBELL & CO. , 27 Larned st., W., mining engineers.
"	" COURTIS & SMITH , 27 Larned st., W., mining and metallurgical engineers.
"	" Jesse M. Smith, 36 Motlat Block, mechanical and electrical engineer.
"	" G. Torrey, 10 Washington av., mining engineer.
Houghton	Macquett I. W. Canton, M. E., professor of mining, Michigan School of Mines.
"	" GEORGE A. KOENIG , Ph. D., dept. of Michigan School of Mines, professor of chemistry; chemical metallurgical examination of drill holes, no. schools, efficiency of analysis.
"	" F. C. Sharpless, Michigan School of Mines, metallurgical chemist.
"	" M. F. Wadsworth, state geologist and instructor, Michigan School of Mines.
Iron Mountain, Iron County	Le. R. Brewster, 100 W. Brown st., analytical chemist.
Port Huron	St. Clair Arthur Edwards, 210 E. Brown st., analytical chemist, no. assayer.
Port Huron	St. Clair E. P. JENNINGS , McLeod st., analytical chemist and mining engineer; reports on Lake Superior iron properties, sampling of ore charges, special work.
"	" N. O. LAWTON , care of City Hotel, 100 E. Second, 101 E. Congress, Port Huron, Mich.
Traverse City	Manistee F. F. Brown & W. W. Torrey, St., mining and electrical chemist.
"	" R. J. R. Co., 101 S. Pine st., analytical chemist.
"	" S. A. Mintz, 100 E. H. st., analytical chemist and assayer.
"	" James R. Thompson, 424 Pine st., mining engineer.
Traverse City	Manistee Charles D. Lyon, civil engineer and mining engineer.
Traverse City	Macquett James L. Hopkins, C. E., and mining engineer.
"	" Richard A. Park, consulting mining engineer.
Traverse City	Manistee C. A. G. Brown, P. O. Box 100, mining engineer.

TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
Nezanne, <i>(Continued.)</i>	Marguerite Wm. E. Saunders, mining and civil engineer.	Chadwick, Christian	EUCENE M. COLE , F. G. S., mining and mechanical engineer; consulting engineer Easley Mines, etc.
Ontonagon, Ontonagon	Alex. P. Mads, mining engineer and assayer.	Desloge, St. Francois	John M. Desloge, mining engineer.
Red Jacket, Houghton	R. M. Edwards, mining engineer.	Jefferson City, Cole	James D. Robertson, E. M., assistant Missouri geological survey.
Schewanning, Huron	Lewis Stockett, mining engineer.	" "	Arthur Winslow, State Capitol, state geologist of Missouri.

MINNESOTA

Duluth, St. Louis	H. B. Crowl, 631 Chamber of Commerce Bldg., chemist and assayer.	Joplin, Jasper	W. P. Cleveland, A. C., cor. Fourth and Joplin sts., chemist.
" "	CHARLES F. HOWE , consulting and mining engineer. Office and laboratory, Chamber of Commerce, Duluth, Minn. References: D. H. Garcon, presd., Minnesota Iron Co., Chicago, Ill.; Joseph S. Fay, Jr., presd., Lake Superior Iron Co., Boston, Mass.; Marine National Bank, Duluth, Minn.	" "	A. F. Downan, Herald Bldg., C. E.
" "	T. L. LAMMERS , 431 Chamber of Commerce, analytical and consulting chemist, ores sampled and assayed, mining properties examined and reported on.	" "	F. C. FLORANCE , 408 Joplin st., mining engineer.
" "	W. C. LA RUE , M. E., 307 Barrows Bldg., mining and gangster quarrying.	" "	ERIC HEDBURG , Box 501, practical engineer, mining, mechanic, electric; plans and erection of mining plants; distance transmission; properties examined and reported on.
" "	FRANK TEDFORD , 610 Lyceum Bldg., mining engineer.	" "	J. R. HOLIBAUGH , 310 Moffet av., mining engineer; complete maps of the Joplin mining district.
Meritt, St. Louis	E. J. Longyear, explorer and M. E.	Marysville, Siskiyou	JAMES P. MEAD , mining engineer.
Minnneapolis, Hennepin	WM. R. APPELEY , 511 Fifth st. S. E., professor of mining and metallurgy in the College of Engineering, Metallurgy and the Mechanic Arts.	Mendota, Putnam	Bernard H. Johnston, M. E.
" "	James A. Dodge, 513 Fifth st. S. E., professor of chemistry in State University.	Marble Hill, Madison	J. T. Monell, metallurgist to Mine la Motte.
" "	Christopher W. Hall, 503 University av. S., dean college of Engineering and Metallurgy.	Palmer, Washington	Joseph W. Belfield, mining engineer.
" "	HORACE V. WINCHELL , 1306 S. E. Seventh st., geologist, chemist and mining expert.	Rolla, Phelps	School of Mines of the University of Missouri, Richard H. Jesse, presd.; Thos. L. Rubey, secy.
" "	N. H. Winchell, state geologist.	St. Louis, St. Louis	JOSEPH P. CAZZAN , P. O. Box 605, mining engineer and metallurgist.
St. Paul, Ramsey	C. BRINKERHOFF , 342 Cedar st., civil and mining engineer.	" "	H. Aug. Humcke, 1219 Mississippi av., mining engineer and chemist.
" "	James Compton, U. S. surveyor-gen.	" "	Philip N. Moore, 55 Laclede Bldg., geologist and mining engineer.
" "	N. LEHMEN , Ph. D., 113 E. Fifth st., analytical and technical chemist.	" "	J. W. NIER , M. E., Room 3 Equitable Bldg., engineer and designer of milling and mining plants.
West Duluth, St. Louis	JOHN H. W. A. KREY , Silver Bk., civil engineer, city engineer West Duluth, opportunities for investments in mining and timber lands.	" "	Burns Phillips, 510 Olive st., consulting civil and mining engineer.
		" "	W. B. Potter, 1225 and 1227 Spruce st., mining engineer and metallurgist.
		" "	OTTO RISSMAN , 1225 Spruce st., mining engineer St. Louis Sampling & Testing Works.
		" "	Albert F. Schneider, 3831 Washington av., civil and mining engineer, metallurgist.
		" "	Thos. R. Stockett Jr., Fourth and Olive sts., mining engineer.
		" "	HERBERT STRICKLAND , 1323 Garrison av., consulting mining engineer and metallurgist.
		" "	ARTHUR THACHER , 1227 Spruce st., mining engineer and metallurgist.
		" "	B. B. THAYER , care E. M. Tesson, West Forest Park, mining engineer.
		" "	H. A. Wheeler, Washington University, consulting mining engineer.
		" "	O. Rees, civil engineer and mine surveyor.

MISSISSIPPI

Vicksburg, Warren	R. S. Buck Jr., civil and mining engineer.
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MISSOURI

Antonia, Lawrence	E. J. Slatery, engineer of Bonanza mines.
Booneville, St. Francois	C. B. Parsons, mining engineer.
" "	Gust Setz, mining engineer.
Cartersville, Jasper	T. J. Shelton, W. Main st., mining engineer.
Carthage, Jasper	W. H. Seamon, Began pl., mining engineer.

Webb City, Jasper	O. Rees, civil engineer and mine surveyor.
Boulder, Jefferson	A. P. Smith, mining engineer.
Bozeman, Gallatin	C. M. Thorpe, C. E., City Hall, U. S. deputy mineral surveyor.

MONTANA

TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
Butte	Silver Bow Baker & Harper, civil and mining engineers.	Helena, Lewis and Clark, <i>Continued.</i>	Jersey, Kinnaman, 147 S. Main St., chemist and assayer.
"	" F. W. Blackford, city hall, mining and civil engineer.	"	" Arthur G. Lombard, U. S. National Bank Bldg., U. S. deputy mineral surveyor.
"	" Robert G. Brown, S. Wagon Roadway and Main St., mining engineer.	"	" W. T. MENDENHALL , mining engineer, live stock and reporting on mines throughout the west, and stimulates furnished with promptness and fidelity. Twenty years' experience in the mining sections throughout the west and Old Mexico. Correspondence solicited.
"	" B. C. W. EVANS , 16 N. Main St., mining engineer.	"	" A. Nentstaedt, mining and civil engineer.
"	" C. W. GOODALE , mining engineer.	"	" John S. O'Brien, 110 Grand St., mining engineer.
"	" F. AUG. HEINZE , M. E., P. O. Box 478, mgr. Montana Ore Purchasing Co. and of the Lapidary Consolidating and Sampling Works Co.	"	" Rodrick & Holmick, Pittsburg Block, civil and mining engineers.
"	" Hermann A. Keller, P. O. Box 206, mining engineer.	"	" Frank L. Sizer, Atlas Block, mining and hydraulic engineer.
"	" Wm. H. Kelley, P. O. Box 206, mining engineer.	"	" C. C. SWALLOW , M. E., 100 S. Main St., mines explored and negotiated. Still more experienced and twenty years' experience in mines of Montana.
"	" Albert R. Knight, P. O. Box 211, U. S. deputy mineral surveyor.	"	" A. B. Wood, mining engineer.
"	" C. A. Koenberg, 20 W. Grand St., civil and mining engineer.	Leaverton	" Harvey L. Olson, Yellowstone, assayer and chemist.
"	" JAMES MACFARLANE , American mine, office, civil and mining engineer, chief engineer, Anaconda Mining Co.	"	" Charles Lippin, U. S. deputy mineral surveyor.
"	" Albert Moog, mining engineer.	"	" James H. Henry, mining engineer.
"	" JOHN B. STEICER , M. E., U. S. deputy mineral surveyor, expert in examination and reports of rocks in production of oils.	Missoula	" F. J. Bell & Dickinson, East National Bank Bldg., mining engineers.
"	" Chas. Wm. Stockley, mining engineer.	Neenah	" ROBERT M. RAYMOND , M. E., So. Montana R. Mining Co.
Coeur d'Alene	Geo. A. Portland, M. E., metallurgist.	Placerville	" M. S. G. M. E. S. deputy mineral surveyor.
Deer Lodge	Deer Lodge A. M. Ryan, professor, Mining and Engineering College of Montana.	Phoenix	" Phoenix, 100 E. Park Bldg., P. O. Box 341, mining engineer.
"	" F. W. Phillips, Ph. D., Ph. C., U. S. Montana School of Mines, assistant chemist, assayer and metallurgist.	Portland	" M. E. Olson, C. W. M. E., U. S. deputy surveyor and assayer.
E. Helena, Lewis & Clark	Walter H. Aldrich, mining engineer and metallurgist.	Rocky Mountain	" Wm. N. F. F. F. assayer.
Elkhorn	Jefferson C. A. MOLSON , mining engineer.	Rocky Mountain	" John K. Turner, mining engineer and chemist.
"	" B. J. Wolston, metallurgist, chemist and mining expert.	Verde	" LOUIS PEPIN , mining engineer.
Empire, Lewis and Clark	Frank Langford, M. E., mining assayer.		
Granite	Deer Lodge J. C. Tyler, assayer and M. E.		
Great Falls	Deer Lodge William F. Kerr, chief metallurgist, mining engineer.		
"	" FRANK KLEPETKO , metallurgist and mining engineer, super. Great Falls Works, ind. of Boston & Montana Consolidated Copper & Silver Mining Co.		
Helena	Lewis & Clark John R. Batty, 810 E. Third St., assayer.		
"	" BAYLISS & ROBINSON , mining engineers, mining and consulting engineers, mining engineers for the Northern Pacific Ry., consulting engineers for the Montana Co. Lumber Co., Mont., and Old Broad St., London, E. C., Helena, Montana. Report on mines for London of America.		
"	" MILES J. CAVANAUGH , Room 90 Bank Block, mining engineer.		
"	" MICHAEL COONEY , P. O. Box 265, mining engineer.		
"	" Geo. O. Eaton, U. S. surveyor general.		
"	" Hovey & Baker, Merchants' National Bank Bldg., civil and mining engineers.		
"	" Walter S. Kelley, mining engineer.		

TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
New York (Continued.)	W. DE L. BENEDICT , 18 Broadway, consulting mining engineer and metallurgist; specialties, tin and phosphate mines.	New York (Continued.)	Axel Sahlin, 1 Broadway, mining engineer.
"	Joseph R. Ben, 140 and 142 Sixth av., civil and topographic engineer.	"	E. J. Schmitz, 164 E. Eighty-sixth st., mining engineer and metallurgist.
"	Robert E. Boorman, 74 Broadway, mining engineer.	"	D. McN. STAUFFER , Tribune Bldg., mining engineer.
"	Walter S. Church, 140 Nassau st., consulting mining engineer.	"	Joseph Strathern, Columbia College, chemistry, metallurgy and mineralogy.
"	Frederick G. Corning, 15 Broad st., mining engineer and metallurgist.	"	Wm. Van Sleeton, C. E., 74 Wall st., mining engineer and metallurgist.
"	J. James R. Croes, 13 William st., consulting engineer.	"	LEO VON ROSENBERG , 35 Broadway, mining engineer.
"	Courtenay De Kabb, 18 Broadway, Room 808, mining engineer and metallurgist.	"	Walter H. Wood, 50 Pine st., mining engineer.
"	Alberson Del Mar, 763 E. One Hundred and Forty-first st., mining engineer, assayer and surveyor.	"	Woodbridge & Turner Engineering Co., Times Bldg., 11 Park row, electrical and mechanical engineers.
"	WM. P. DEWEY , 180 Fifth av., mining engineer.	"	Arthur F. Wondt, 127 E. Ninety-first st., mining engineer and metallurgist.
"	P. P. Dickinson, 45 Broadway, civil and mining engineer.	"	Young & Park, 2 Wall st., mechanical and mining engineers.
"	THOS. ECLESTON , Ph. D., 407, Forty-ninth and Fourth av., professor of mineralogy and metallurgy, School of Mines, Columbia College, consulting mining engineer and metallurgist.	Union Falls, Niagara	Wm. S. Humbert, E. M., P. O. Box 296, civil and mining engineer.
"	Geo. L. English & Co., 73 Broadway, mineralogists.	Pellam Manor, Westchester	Wm. A. Smith, mining engineer, lecturer on mining, Columbia College.
"	T. Graham Grable, 76 Broad st., civil, mechanical and hydraulic engineer.	Port Henry, Essex	N. M. Lurgdon, N. Main st., mining and mechanical engineer.
"	W. A. Hooker, E. M., 145 Broadway, consulting mining engineer.	Poughkeepsie, Dutchess	A. E. TOWER & BRO. , mining engineers.
"	F. R. Hutton, Ph. D., 12 West Thirty-first st., mechanical engineer and expert.	Rochester, Monroe	Geo. W. Rafter, 134 Cotton st., civil engineer.
"	C. W. Kempton, 61 Broadway, mining engineer.	Rome, Oneida	The Stanwix Engineering Co., mining and hydraulic engineers.
"	William Kent, 125 Times Bldg., mechanical and metallurgical engineer.	Spragueville, St. Lawrence	GREGORY P. HARTE , M. E., Lumber, Roscoe Box, Wood.
"	Geo. F. Kunz, M. E., 1145 Times Square, gen. expert and gen. mining.	Syracuse, Onondaga	W. B. Cogswell, mining engineer.
"	Ledoux & Co., 9 Cliff st., assayers, metallurgists and mining engineers.	"	ENGINEERING EMPLOYMENT BUREAU , 80 Grand St., supplying employers with engineers, superintendents, chemists and draftsmen at all charges.
"	E. A. LEWALD , 69 Wall st., civil and mining engineer, examining, reports and management of mines.	"	W. L. Neill, eng. of Solvay Process Co., mining engineer.
"	Orleans Longacre, Twenty-sixth st. and Eleventh av., mining and contracting engineer.	Tarrytown, Westchester	Francis N. Holbrook, mining engineer.
"	CEO. W. MAYNARD , 75 Cedar st., mining and metallurgical engineer.	Troy, Rensselaer	Charles McCreery, mining engineer.
"	Spencer Millet, 76 Liberty st., mining engineer.	"	John M. Sherman, 16 First st., metallurgical and analytical chemist.
"	Dr. Gideon L. Moore, 221 Pearl st., analytical chemist and assayer.	"	Enrique A. Torrealba, Troy Steel & Iron Co., civil engineer and chemist.
"	Eben F. Odell, 18 Broadway, mining engineer and metallurgist.	Watson, Wyoming	Charles C. Peck, mining engineer.
"	H. Robert Porter Jr., 126 Broadway, mining and mechanical engineer.		
"	R. W. RAYMOND , Ph. D., M. E., 13 Building st., secretary American Institute of Mining Engineers.		
"	Jesse W. Reno, Mills Bldg., mining engineer and metallurgist.		
"	RICKETTS & BANKS , M. E., 164 John st., mill tests, sampling, assays and analyses. (See index, page 11.)		
"	RICHARD P. ROTHWELL , C. E., M. E., 27 Park pl., editor of The Engineering and Mining Journal.		

NORTH CAROLINA

Bridgetown, Burke	Frank W. Boyd, mining engineer.
Chapel Hill, Orange	HENRY B. C. NITZE , assistant state geologist, North Carolina.
"	Geo. B. Hamlin, geologist and mineralogist, geological survey.
"	Prof. J. A. Holmes, acting state geologist.
Charlotte, Mecklenburg	C. Ad. Meyers, M. E., P. O. Box 147, mining and metallurgical engineer.
"	United States Assay Office, assays and metallurgists.
"	John Wilkes, mining engineer.

TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
Charlotte, Mecklenburg	J. Frank Wilkes, mining engineer.	Cleveland, Cuyahoga	CHARLES H. POTTER & CO., 104 Superior st., mining engineers.
" (Continued.)	"	" (Continued.)	"
" " "	Paul Wilkes, Jas. N. Trade st., mining engineer.	" " "	RATTLE, NYE & HOLLIS, 807 Western Reserve Bldg., analytical chemists and mining engineers. (Also Chicago, Ill.)
Gold Hill " Rowan	RICHARD EAMES JR., mining engineer and assayer. Experience in California, Colorado, India, Honduras.	" " "	Wm. J. Rattle, 155 St. Clair st., mining engineer and analytical chemist.
Salisbury " Rowan	FRANK R. WILLIAMS, mining engineer, examines and reports.	" " "	Robert M. Haseltine, chief state inspector of mines.
" " "	J. T. WYATT, 140 Main st., mining engineer, gold-grinders, portable mills, rubble-stone, curbing, granite, also Belgian blocks.	Columbus " Franklin	Edward Orton, 100 Twentieth st., mining engineer.
South Toe " Vancey	Jasper Antrey, surveyor, mines and mining.	Congo " Pickaway	FRANK A. RAY, mining engineer.
Wilmington, New Hanover	H. A. Whiting, mining engineer.	Glen Roy " Jackson	Andrew Roy & Son, mining geologists and engineers.

NORTH DAKOTA

Grand Forks	E. J. Babcock, department chemistry and mineralogy University of North Dakota.
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OHIO

Akron " Summit	STEPHEN H. PITKIN, 104 Park st., gen. mgr. Webster, Camp & Lane Co.
Armstrongs Mills, Belmont	Frank B. Armstrong, surveyor.
Buchtel " Athens	CHARLES C. SHARP, civil and mining engineer, chief engineer Columbus &ocking Coal & Iron Co.
Cambridge " Chermsey	Wm. J. Bester, 132 N. Sixth st., mining engineer.
" " "	C. W. H. Kreckenbaum, mining engineer and superintendent.
Canal Dover " Tuscarawas	J. L. Morris, mining engineer.
Carbon Hill " Hocking	Eph. Shaw, civil, mining and mechanical engineer.
Cincinnati " Hamilton	G. Bouscaren, 30 W. Fourth st., consulting engineer.
" " "	THOMAS J. CREACHEAD, 293 Plum st., mining and electrical engineer.
" " "	Jas. R. Maxwell, M. E., 75 E. Front st., consulting engineer.

Cleveland " Cuyahoga	CLEVELAND ENGINEERING CO., Room 16 Metropolitan Bank Bldg., mining, mechanical and electrical engineers.
" " "	J. H. CREMER, 24 Superior st., (vacated), mining engineer, chemist and metallurgist.
" " "	N. B. Dare, 57 and 59 Wade Bk., mining engineer.
" " "	JOHN J. DATE, Perry-Payne Bldg., mining engineer.
" " "	Robert N. Dickman, 18 Johnson st., chemist and mining engineer.
" " "	L. A. DRYFOOS, Ph. C., Ph. D., 155 St. Clair st., Room 55, consulting, technical and analytical chemist.
" " "	W. J. HILANDS, 108 Superior st., mining engineer.
" " "	KNIFFLER MANUFACTURING CO., 50 Euclid av., analytical chemists.
" " "	John W. Langley, Ph. D., case of Case School of Applied Science, electrical and metallurgical engineer.
" " "	HENRY M. MORRISON, M. E., Sims Bldg., rope hardware, wire rope.
Euans " Baker	J. J. Taylor, mining engineer.
La Grande " Union	Arthur Philbrick, C. E., Slater Block, U. S. deputy mineral surveyor.
Millers " Linn	E. T. T. Fisher, M. E., U. S. deputy mineral surveyor.
Pendleton " Uintilla	John W. Kimbrell, M. E., 5 Savings Bank Bldg., U. S. deputy mineral surveyor.
Portland " Multnomah	W. H. Byars, U. S. surveyor-general.
" " "	Wm. H. Hampton, metallurgical chemist and mining engineer.
Prarie City " Grant	J. W. Mack, M. E., U. S. deputy mineral surveyor.
Salem " Marion	E. J. McCanstand, 320 Liberty st., hydraulic and mining engineer.
Sparta " Union	FRANK C. SMITH, M. E. (see Curtis & Smith, Detroit, Mich.).

OREGON

PENNSYLVANIA

Allegheny " Allegheny	J. M. Camp, 131 Rebecca st., analytical chemist and metallurgist.
Allentown " Lehigh	Edward T. Clymer, 900 N. Front st., mining engineer.
" " "	Joseph Hunt, cor. Third and Walnut sts., mining engineer.
Altoona " Blair	W. M. FRASER, 1001 Eleventh av., civil and mining engineer, coal and ore properties examined and reported on in any part of the state.
" " "	William Hogg, First National Bank Bldg., civil and mining engineer.
Ashland " Schuylkill	Wm. McMurtrie, inspector of mines, sixth anthracite district.
" " "	Henry L. Manley, 60 Centre st., mining engineer.
" " "	Samuel M. Riley, civil and mining engineer.

TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
Andover	Carbon Theodore Stevens, care of H. E. Stout, mining engineer and metallurgist.	Philadelphia, Philadelphia (Continued.)	E. V. d'Invilliers, 711 Walnut St., geologist and mining engineer.
"	" R. Paul Stout, mechanical engineer for L. & W. B. Coal Co.	"	" Dr. Theodor Frazer, 102 Drexel Bldg., geologist and chemist.
Bethlehem, Northampton (see also South Bethlehem.)	Edward H. Williams, Jr., F. G. S. A., 117 Church St., professor of mining and geology, Lehigh University.	"	" Wm. C. Gutzmer, 122 S. Delaware av., general engineering.
Blossburg	Tioga James N. Patterson, inspector of mines, fourth bituminous district.	"	" Edward B. Harden, 424 N. Thirty-third St., geologist and mining engineer.
Cornellsville	Fayette S. M. Foush, cor. Main and Prospect, mining and civil engineer.	"	" James T. B. Ives, 145 N. Twenty-ninth St., mining engineer and geologist.
East Brady	Clarion John D. Hagerty, mining engineer.	"	" Ambrose E. Lehman, 711 Walnut St., mining, civil engineer and geologist.
Easton	Northampton Edward Hart, Lafayette College, analytical chemistry.	"	" George M. Lehman, 711 Walnut St., civil and topographical engineer.
"	" Clemens Jones, M. E., 433 Northampton St., chemist.	"	" Benj. S. Lyman, 705 Locust St., mining engineer, geologist and topographer.
Erie	Erie W. S. CRESLEY , State St., Scott's Block, mining engineer, specialty, coal mines, advises on improved methods of mining, "longwall" specialist. Twenty-three years' practical experience in U. S. and Great Britain. Holds state mine manager's certificate of competency.	"	PENROSE & BARRINGER , Buhrt Bldg., 331 N. Fourth St., geologists and mining experts. R. A. F. Penrose and Daniel M. Barringer.
Hastings	Cambria C. F. FRASER , civil and mining engineer, resident engineer. Rinkenbaker Coal Co., special attention given to reports on coal properties.	"	R. A. F. PENROSE JR. , Ph. D., 1541 Spruce St., mining engineer and geologist.
Hazleton	Luzerne L. O. Emmerich, civil and mining engineer.	"	Frederick Prime, 1005 Spruce St., geologist and metallurgist.
"	" John M. Lewis, inspector of mines, fourth anthracite district.	"	Frank C. Roberts, 338 Chestnut St., mechanical engineer.
"	" THOS. S. McNAIR , 154 N. Church St., civil and mining engineer.	"	" Henry Romey, 110 S. Fourth St., consulting engineer and architect.
"	" A. S. VAN WINKLE , mining engineer, State Belt and White Coal Co.	"	" A. D. W. Smith, Post Office Bldg., Room 18, assistant geologist, Pennsylvania Geological Survey.
Hotato	Jefferson Thomas Fisher, M. E.	"	WALTER M. STEIN , 75 Walnut St., civil and mining engineer.
Houtzdale	Clearfield Austin King, inspector of mines, eighth bituminous district.	"	John A. Wilson, Duvel Bldg., civil engineer.
Huntingdon	Huntingdon W. A. P. Wilson, 15 Washington St., civil and mining engineer.	"	" B. H. Yord, 115 Duvel Bldg., mining engineer.
Idylwood	Allegheny James Black, inspector of mines, seventh bituminous district.	Pittsburgh, Allegheny	" P. F. Womackson, Gray Bldg., mining engineer.
Irwin	Westmoreland Wm. Jenkins, inspector of mines, second bituminous district.	Pittsburgh, Allegheny	C. BRINKERHOFF , 47 Cedar St., mining engineer.
Johnstown	Cambria J. T. Evans, inspector of mines, sixth bituminous district.	"	" R. Nelson Clark, thirty-second and Smallman Sts., mining engineer.
"	" Marshall C. Moore, 141 Morris St., mining engineer.	"	" G. M. Curtis, 212 and 150 S. Tenth St., cor. 10th, mechanical engineer.
"	" George F. Plackteray, Cambria Lyle, civil, mechanical and metallurgical engineer.	"	" R. Stuart D. Rothrock, 114 Water St., civil and mining engineer.
"	" Frank Williams, 221 Main St., mining, civil and metallurgist.	"	HUNT & CLAPP , 116 Water St., 116 and 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.
Lebanon	Lebanon S. G. Valentine, Ph. D., mining engineer.	"	" HUNT & CLAPP , 116 Water St., 116 and 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.
"	" Asa A. Weimer, mechanical engineer.	"	" JULIAN KENNEDY , Vandergrift Bldg., mining engineer.
McKeesport	Allegheny Wm. S. Gibson, 5 Fifth av., civil and mining engineer.	"	" F. A. McDonald, 101 Room 311, Penn. Bldg., civil and mining engineer.
Merer	Merer Thomas K. Adams, inspector of mines, third bituminous district.	"	" McDonald & Co., 101 Room 311, Penn. Bldg., civil and mining engineer.
Mckees	Lehigh Edwin Mckley, Main St., mining engineer.	"	" George R. McQuinn, 577 Locust, civil and mining engineer.
Monongahela City	Washington Henry Lott, inspector of mines, first bituminous district.	"	" George Francis Myers, Penn. Bldg., electrical and mining engineer.
Monroeton	Bradford P. E. Allen, civil and mining engineer.	"	" S. D. OLIPHANT , 111 First av., mining engineer.
Oscarola Mills	Clearfield Geo. M. H. Good, mining engineer.	"	"
Philadelphia Philadelphia	Thos. P. Brown, E. M., care of University of Pennsylvania, instructor in mineralogy and metallurgy.	"	"

TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
Pittsburgh, Allegheny (Continued.)	PITTSBURGH TESTING LABORATORY , 16 Water St., inspecting and metallurgical engineers and chemists.	Uniontown	Fayette Wm. Duncan, inspector of mines, fifth anthracite district.
"	ROBINSON & ORR , 419 Wood st., mining engineers.	Wayne	Delaware H. BIRKINBINE , hydraulic and mechanical engineer.
"	M. V. SMITH , Tomes Bldg., Room 706, metallurgical engineer and contractor.	Wellshoro	„Tioga Anton Harrit, mining engineer.
"	S. Stutz, 706-710 Penn. av., mining and mechanical engineer.	Wilkes Barre	„Luzerne James H. Bowden, 37 Park av., mining engineer, anthracite expert.
"	Selwyn M. Taylor, Room 420 Bissell Block, mining engineer.	"	" W. J. RICHARDS , 98 Public Square, mining engineer, Lehigh & Wilkes Barre Coal Co.
Pittston	„Luzerne H. McDonald, inspector of mines, second anthracite district.	"	" G. M. Williams, inspector of mines, third anthracite district.
Pottstown	Montgomery J. S. Robeson, metallurgist.	RHODE ISLAND	
Pottsville	Schuylkill Samuel Gay, inspector of mines, seventh anthracite district.	Providence	Providence L. B. Darling, 34 Sabin st., mining engineer.
"	" Bard Wells, cor. Second st. and Schuylkill av., mining engineer.	SOUTH CAROLINA	
Pennsylvaniawey	Jefferson H. S. Smith, civil and mining engineer.	Beaufort	„Beaufort C. W. Jewell, P. O. Box 197, machinist, engineer, draftsman.
Reading	Berks Wm. H. Dechant, 536 Penn. st., mining and civil engineer.	SOUTH DAKOTA	
Reynoldsville	Jefferson Fremont M. Brown, Grant st., civil and mining engineer.	Central City	Lawrence RICHARD BLACKSTONE , chief engineer, Homestake Mining Co.
Scranton	Lackawanna James Archibald jr., mining engineer.	Custer	„Custer S. D. Porter, assayer and mining engineer.
"	" Geo. F. Barnard, 923 Mulberry St., mining and mechanical engineer.	Dendwood	Lawrence RICHARD C. ANDERSON , mining engineer, United States, deputy mineral surveyor for South Dakota and Wyoming.
"	" EDMUND A. BARTL , 404 Lackawanna av., civil and mining engineer and architect.	"	" E. Danekwardt, metallurgical chemist.
"	" Patrick Blewitt, inspector of mines, first anthracite district.	"	" Geo. S. Hopkins, deputy U. S. mineral surveyor.
"	" ALEXANDER DICK , mining engineer, assistant editor Colliery Engineer.	"	" Geo. H. Sharpe, civil and mining engineer.
"	" RUFUS J. FOSTER , mining engineer, editor Colliery Engineer.	"	" WAITE & ANKENY , mining engineers.
"	" WILLIAM CRIFFITH , Room 16 Coal Exchange, civil and mining engineer and geologist.	"	" Thomas H. White, mining engineer, mining investments, mines examined, advice given.
"	" Edward S. Mohat, 396 Quincey av., mining engineer.	"	" A. D. Wilson, Ph. D., civil and mining engineer.
"	" Jeremiah J. Phillips, 295 S. Main av., civil engineer and surveyor.	Hill City	Pennington Charles M. Caton, C. E., U. S. deputy mineral surveyor.
"	" Francis A. Pocock, Wyoming av., mining and electrical engineer.	Lead	„Lawrence Titus E. Corbhill, state inspector of mines.
"	" C. H. SCHARAR , 2573 North Main av., civil and mining engineer, mining engineer Delaware & Hudson Canal Co.	Rapid City	Pennington SAMUEL SCOTT , mining engineer, mining investments, mines examined, advice given.
"	" Alex. H. Sherred, 423 Jefferson av., mining engineer and chemist.	"	" MYRON WILLISIE , civil and mining engineer.
"	" H. P. SIMPSON , Republican Bldg., mining engineer.	Sioux Falls	Minnehaha D. C. Rice, 219 S. Duluth av., civil engineer.
Sharpsville	Mercer Walter A. Barrows, analytical chemist.	Sisseton	Roberts Monroe Warner, C. E., U. S. deputy mineral surveyor.
Shenandoah	Schuylkill Wm. Stem, inspector of mines, fifth anthracite district.	Vermillion	Clay Carl Gunderson, C. E., U. S. deputy mineral surveyor.
Slatington	Lehigh Robert G. Davies, mining engineer.	"	" ELBERT D. HAWKINS , C. E., U. S. deputy mineral surveyor.
South Bethlehem	„Northampton W. H. Jacques, M. E., Fountain Hill, ordinance and consulting engineer.	Watertown	„Codrington Geo. W. Carpenter, cor. Spruce and Huron sts., surveyor and engineer.
"	(See also Bethlehem.)		
"	" W. S. Maharg, 16 W. Fourth St., chemist and assayer.		
"	" M. D. Cohen, Lehigh University, analytical and consulting chemist.		
"	" H. H. Stock, instructor in mining and geology, Lehigh University.		
Steelton	„Dauphin EDWARD E. KNAPP , M. E., asst. supt. blast furnace department, Pennsylvania Steel Co.		
Swedeland	„Montgomery Jacob Lychenbenn, M. E., analytical chemist.		

TENNESSEE

TOWN AND COUNTY	NAME	State	City	Address	Occupation
Chattanooga Hamilton	GUILD & WHITE , 20, 21 and 22 Keystone Block, mining engineers and analytical chemists.	Ohio	Chatt.	H. H. Bendershot, Excelsior Block, mining engineer and assayer.	
" "	GEORGE W. WARE , 1st W. Ninth st., mining engineer, mineral properties, coal, iron, manganese, etc. Nothing but first-class properties and securities handled or offered.	Washington	St. Geo.	Isaac C. MacFarland, civil engineer and surveyor.	
Clarksville Montgomery	H. G. Woodward, mining engineer.	Utah	Salt Lake City	Bannister & Birch, 40 S. Main st., civil and mining engineers.	
Harriman " Boone	Louis E. Bryant, mining engineer.	" "	" "	BEWICK, MOREINC & HOOPER , Room 20 Central Block, mining engineers.	
Jellico Campbell	DAVID C. BARKER , mining and consulting engineer. Experience in England, South Wales, South Africa and United States. Diplomas of honor.	" "	" "	J. W. Curtis, 120 Main st., assayer.	
Knoxville Knox	J. W. Shenn, 152 Gay st., analytical chemist and assayer.	" "	" "	Ellsworth Dagget, 1 E. S. surveyor-general, mining engineer and metallurgist.	
Nashville Davidson	Wm. L. Dudley, M. E., teacher of Vanderbilt University, professor of chemistry.	" "	" "	Walter Tenby, M. E., Rooms 406 and 407, Process Bldg., 1 E. S., deputy in metal surveyor.	
" "	Geo. W. Ford, inspector of mines and commissioner of labor.	" "	" "	M. S. HANAUER , 141 S. Main st., assayer and chemist.	
" "	OLIN H. LANDRETH , M. E., Vanderbilt University, consulting engineer, water works, water power, reclamation, irrigation, drainage.	" "	" "	A. P. Hanson, Room 517 P. O. Block, civil and mining engineer.	
" "	Wm. T. Magruder, Vanderbilt University, professor in chemical engineering, technical expert.	" "	" "	A. Jessen, 378 E. Fourth Temple st., civil and mining engineer.	
South Pittsburg Marion	F. P. Clark, civil and mining engineer.	" "	" "	Jones & Jacobs, 47 Main st., mechanical and contracting engineers.	
				C. LAVACCHINO , 76 W. Second St., 1st Rooms 18 and 20, mining and consulting engineer. Cable address: "Lava," "Salt Lake."	
				Samuel E. McCoy, 375 Main st., civil engineering and mechanical.	

TEXAS

1987-88 **FRANK L. LUTHE**, 1000 S. State St., 2nd Fl.,
 Chicago, Ill. 60605
 1988-89 **BERNARD F. HECKELMAN**, 1000 S.
 State St., 2nd Fl., Chicago, Ill. 60605
 1989-90 **RICHARD H. TERHUNE**, 417 W.
 Superior St., Chicago, Ill. 60610
 1990-91 **JOHN J. HANCOCK**, 1000 S. State St.,
 2nd Fl., Chicago, Ill. 60605

VIRGINIA

[illegible]

TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
Rossmore (Continued.)	Rossmore EDMUND C. PECHIN , M. E., will report on iron properties.	Rush Run	Fayette Horace D. Gast, mining engineer.
"	" Oscar Salye, Campbell st., opp. post-office, consulting civil engineer.	Wellsburg	Brooke Millard E. Boyd, cor. Commerce and Liberty sts., mining and civil engineer.
Stanleyton	Page C. B. Foote, mining engineer.	Wheeling	Ohio C. Q. Rawling, 1520 Market st., analytical chemist.
WASHINGTON		WISCONSIN	
Anacortes	Skagit Amos Bowman, cor. Fifth av., geologist, transportation, coal and power.	Beloit	Rock ERASTUS C. SMITH , Ph. D., Beloit College, chemical laboratory, analytical and consulting chemist.
Colfax	Whitman E. H. Hendsch, mining and mechanical engineer.	Florence	Florence C. S. Simpson, civil and mining engineer.
Colville	Stevens J. C. Colbaugh, assayer and mineralogist.	Hurley	Ashland CEO. H. ABEEL , M. E., iron mines and blast furnaces.
Durham	King ROBERT YOUNG , civil and mining engineer, specialist on iron, coal, fireclay, firebricks for intense heats, coal washing, coke, coke making and fire-brick plant.	Livingston	Grant John Green, mining engineer.
Fairhaven	Whitcomb R. E. Helms, mining engineer.	Madison	Dane D. C. Jackson, electrical engineer.
New Whitcomb	Whitcomb M. Muir Picken, P. O. Box 781, U. S. deputy mineral surveyor.	Milwaukee	Milwaukee Dayvort Fisher, 334 Broadway, analytical chemist.
Olympia	Thurston Amos F. Shaw, U. S. surveyor-general.	"	" A. S. Mitchell, 436 Milwaukee st., chemist and assayer.
Ruby	Okanogan LUTHER WAGONER , M. E., manager Washington Reduction Co.	"	" Theo. W. Robinson, care of Illinois Steel Co., mining engineer.
Seattle	King C. E. Bogardus, 601 Columbia st., assayer and chemist.	"	" Harry E. Smith, 133 Twenty-sixth st., chief chemist C. M. & St. P. Ry.
"	" ANDREW F. BURLEIGH , mining engineer.	Trempealeau	Trempealeau G. H. Squires, geologist.
"	" Alexander M. Reynolds, M. E., 63 Squire-Lattimer Bldg., min. surveyor.	WYOMING	
Sedro	Skagit A. G. Mosier, C. E., U. S. deputy mineral surveyor.	Cheyenne	Laramie Wm. A. Richards, U. S. surveyor-gen.
Shoshonish	Shoshonish Elmer Lehest, C. E., U. S. deputy mineral surveyor.	Lander	Fremont J. E. Hull, U. S. deputy min. surveyor.
Spokane	Spokane B. C. Riblet, Rooms 23 and 24 Eagle Bldg., U. S. deputy mineral surveyor.	Red Bank	Big Horn A. L. Coleman, U. S. deputy mineral surveyor.
"	" LEONARD SIVYER , mining engineer, mine owner, operator, carefully reports on mines anywhere.	Rock Springs	Sweetwater M. S. Knight, civil and mining engineer.
"	" Charles Turnbull, mining engineer.	"	" FRANK A. MANLEY , mining engineer.
Tacoma	Pierce WILLIAM BREDEMAYER , Ph. D., B. S., A. S., Lawrence Bldg., Rooms 3, 4 and 5, mining engineer, assayer, U. S. mineral surveyor. Thirty-four years' experience in Europe, Asia and America.	Welcome	Crook R. G. Anderson, civil and mining engineer.
"	" DR. WILLIS E. EVERETT , 1318 E. st. South, mining geologist, assayer and mining lawyer.	BRITISH COLUMBIA	
WEST VIRGINIA		Golden, Vale and Kootenay	FOWLER & FISHBURN , mining engineers and metallurgists.
Charleston	Kanawha ALBERT M. CAMPBELL , Charleston National Bank Bldg., civil and mining engineer, the opening of coal, iron and gold mines a specialty.	Kootenay	Vale Arthur W. Jenks, mining engineer.
Clarksburg	Harrison G. B. Chorpeng, civil and mining engineer.	Nanaimo	Vancouver Archibald Dick, M. E., inspector coal mines British Columbia.
Diego	Kanawha OSCAR A. VEAZEY , civil and mining engineer.	"	" Joseph Hardy, Rosewell Cottage, mining engineer and expert.
Dunlow	Wayne THOMAS NICHOL , mine supt. and mining engineer.	"	" E. Priest, Stewart av., C. E., provincial land and mine surveyor.
Elk Garden	Mineral Henry Cunningham, mine inspector.	Vancouver	New Westminster John Robison, provincial secretary.
Elkhorn	McDowell Harris & Lincoln, mining and civil engineers.	Victoria	Victoria Herbert Carmichael, government analyst and assayer.
"	" Eugene B. Wilson, mining engineer.	NEW BRUNSWICK	
Fairmont	Marion J. Perry Thompson, Main st., civil and mining engineer.	Fredericton	York L. J. Tweedie, surveyor general.
Moundsville	Marshall J. F. Burley & Bro., La Fayette av., civil and mining engineers.	St. John	St. John Alfred Markham, Sun Bldg., mining engineer and mineral expert.
Pocahontas	Fayette C. Schatz, mining engineer and surveyor.	Ferrona	Pictou R. E. Chambers, mining engineer.
		Habitax	Habitax John E. Hardman, 129 Holts st., mining and consulting engineer.
NOVA SCOTIA			

TOWN AND COUNTY OR STATE	NAME
Middleton.....Annapolis	R. G. E. Lockie, American House, mining and civil engineer.
Oxford.....Cumberland	J. M. Reid, Musquodoboit Harbor, mining engineer.
Sherbrooke.....Guysboro	C. F. MONCKTON , mining engineer, dealer in mining properties, gold, coal and iron.
Sydney.....Cape Breton	Joseph W. Revere, mining engineer.

ONTARIO

Kingston.....Kingston	Geo. A. Spotswood, 16 Clarence St., C. E. mining engineer.
Marioneta.....Hastings	G. L. Woodworth, mining engineer.
Ottawa.....Ottawa	ROBERT BELL , geologist, assistant director Geological Survey, Canada.
"....."	Geo. M. Dawson, geologist.
"....."	Elfric D. Ingrall, mining engineer to geological survey of Canada.
"....."	Albert P. Low, Geological Survey, geologist and mining engineer.
"....."	Alfred R. C. Selwyn, C. M. G., LL. D., F. R. S., director geological survey of Canada.
"....."	J. Lamson Wells, M. E., 206 Albert St., mining expert, chemist and assayer.
Port Arthur.....Algoma	A. Longheed, civil and mining engineer.
"....."	WALPOLE ROLAND , C. E., M. E., Arthur St., topographical surveyor.
"....."	Russell & Co., Canton St., mining engineers and land surveyors.
Sudbury.....Algoma	James R. Gordon, civil and mining engineer.
"....."	James R. Hammond, Cecil St., chemist and metallurgist.
"....."	Louis A. Burke, Elm St., surveyor, mining and civil engineer.
"....."	A. D. MACDONELL , mining engineer.
Sydenham.....Addington	James Foster, William St., mining and mechanical engineer.
Toronto.....Toronto	Wm. Hamilton Merritt, 15 Toronto St., mining engineer and metallurgist.
"....."	W. Thos. Newman, 75 Oxford St., mining engineer.

QUEBEC

Black Lake.....Megantic	A. M. EVANS , M. E., specialty coal, metallurgist, assayer and expert.
Montreal.....Montreal	J. T. Donald, 124 St. James St., mining engineer and assayer.
Quebec.....Quebec	J. Ouellet, government mining engineer.
Sherbrooke.....Sherbrooke	F. A. Halsey, mining engineer.

MEXICO

Altamira.....Sonora	Frank W. Birch, mining engineer.
Calnece.....San Luis Potosi	FRANCISCO M. COCHLAN , C. E., assayer.
Cerralvo.....Nuevo Leon	H. C. Harrison, mining engineer, Santa Anita Mining Co.

TOWN AND STATE OR COUNTY	NAME
City of Mexico.....	RICHARD E. CHISM , 3a Independencia No. 1, Avenida Ponce de Leon 47. Mining expert and patent agent, National School of Mines of Mexico. Publishes El Minero Mexicano, the only mining journal of Mexico, established 1858. Organ of the richest class of Mexicans and Standard. Advertising very effective. Rates low. Subscription \$6.00 a year. El Minero Mexicano Patent, Trade Mark and Copyright Agency. Lowest rates, quickest time.
Durango.....Durango	WILLIAM VICCERS , mining and mechanical engineer, superintendent of the Durango Steel & Iron Co., Durango, Mexico.
La Noria.....Zacatecas	Frank H. Seamon, mining engineer and chemist.
Magdalena.....Sonora	Ygnacio Bonillas, M. E., government mining expert Magdalena District.
Monte Morelos.....Nuevo Leon	Dr. H. E. Batchelor, mining engineer.
Monterrey.....Nuevo Leon	T. S. Austin, metallurgist.
"....."	Arthur K. Brower, assayer and chemist.
"....."	ELWOOD J. WILSON , E. M., mining engineer and metallurgist, metallurgist company, Manera, Francia y Almadena, Monterrey.
Pacheco.....Hidalgo	FRED. W. BOWDEN , 7 Hidalgo St., mining engineer, surveyor and assayer.
Parial.....Chihuahua	Thomas F. Doyle, mining engineer.
San Felipe.....Coahuila	Edward G. Little, mining engineer.

AUSTRALIA

Dundas.....Tasmania	B. P. EKBERG , mining engineer.
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ENGLAND

Luton.....Middx	BAYLISS & ROBINSON , 74 Old Broad St., E. C. 4, mining and consulting engineers. See Marysville, M. E.
"....."	R. J. & Wm. Trechbrey, 31 Broad Street, mining engineers.

FRANCE

Paris.....	J. M. Bell, 120 Boulevard Malesherbes, civil mining engineer.
"....."	EMILE COLLINS , 10 Me. Aubert, mining engineer.

GUIANA

Paraguay.....Paraguay	J. J. SCHOFIELD , M. E., gold mining engineer, 100 Ave. Africa and 80 Ave. Africa, mining and placer mines. Open to examine, report, develop and place properties as paying mines, according to report furnished.
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HONDURAS

Department of Copan.....	J. C. K. Selby, mining engineer, Department of Copan.
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INDIA

Calcutta.....	P. Datta, 19 Hall Bazar, civil mining and consulting engineer.
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BROKERS, BANKERS, INVESTMENT COMPANIES AND MINING EXCHANGES

CALIFORNIA		TOWN AND COUNTY		NAME	
TOWN AND COUNTY	NAME	Denver	Arapahoe		
		<i>(Continued.)</i>			
Los Angeles	Los Angeles	F. C. Garbutt, 244 Ohio St., mining broker.		FRED A. COX , 355 Chib. Bldg., broker, mines and mineral lands.	
San Francisco	San Francisco	THOMAS O. HEYDENFELDT , 147 Montgomery St., Room 5, mining secy. and broker.		D. I. EZEKIEL , Room 120 Mining Exchange, mining investment broker, member of the Colorado Stock Exchange, dividend stocks a specialty, mining syndicates formed, correspondence solicited. Reference, Colorado National Bank.	
"	"	NAT. T. MESSER , 2 and 26 Nevada Block, broker, prest. Hale & Norcross and Andes Silver Mining Cos.		C. M. FARMIN & CO. , 520 Mining Exchange, brokers.	
"	"	Pacific Mining Exchange, 45 Merchants' Exchange, 63 California St.			
"	"	George D. Ruffelt, 420 Montgomery St., broker.			
COLORADO					
Aspen	Pitkin	ARKELL, MAC MILLAN & STEWART , P. O. Box 656, brokers in mines and mining stocks. Reference, First National Bank, Aspen. (See adv., page 14)		A. P. FENNERTY , 720 Seventeenth St., mining broker. Dealer in Colorado gold mines; mines secured for syndicates; mining companies organized; dividend-paying mines and mining stocks. Your business and correspondence solicited.	
"	"	STOCKMAN & BOURQUIN , P. O. Box 545, mining and stock brokers and mining stocks. Reference, First National Bank and Bank of J. B. Wheeler & Co., Aspen, Wm. B. Root, Mining Exchange, Denver.			
"	"	S. L. VAN AMVINCEN , Hotel Jefferson, mining promoter and stock broker.			
Boulder	Boulder	Frank Canfield, P. O. Box 766, broker.		WM. CELDER & CO. , 267-269 Boston Bldg., mining and general brokers. Stocks and bonds bought and sold or handled on commission.	
Canon City	Fremont	C. F. Turner, mining broker.		ERNEST J. HART , 311 Ernest & Connors Block, broker.	
Colorado Springs	El Paso	KISSELL, OTIS & CONNOR , brokers, real estate, investments and stocks. (See adv., page 14)		W. F. KENDRICK , Room 505 Mining Exchange Bldg., mining investments, official broker for the Extension Gold Mining & Milling Co., of Breckenridge. The Massey Gold Mining Co. of Ariz. and Benav. Gold Mining & Milling Co. of Empire Creek and Oracle. Reference, First National Bank, Denver, Colo. (See adv., page 354.)	
"	"	W. H. Leonard, Hagerman Block, Room 14, mining stock broker.		P. J. McLean , 1698 Hampden St.	
"	"	PROUDFIT, EDSALL & COFFIN , Hagerman Bldg., Kiowa St., brokers.		WM. B. ROOT , Mining Exchange Bldg., stocks and mines, member Colorado Mining Stock Exchange.	
"	"	W. W. WILLIAMSON , 101 S. Front St., mining stock and investment broker.		C. F. SCHMIDT , 506 Mining Exchange Bldg., mining stock investments, member Colorado Mining Stock Exchange. This is not for non-residents, specially.	
Denver	Arapahoe	HENRY APPLE , 647 Champa St., broker in mines, mining and stock stocks.		W. M. TAYLOR & CO. , 26 and 177 Exchange Bldg., 26 and 177 Exchange Bldg., member of the Mining Stock Exchange. We have a specialty of buying and selling in U.S. and foreign stocks and bonds. Particular attention to participants.	
"	"	BAKER & FELT , 1635 Seventeenth St., bankers and brokers.		H. E. Winkworth & Co. , 521 Chit. St., bond as.	
"	"	SAMUEL P. BEALL , Room 141 Mining Exchange Bldg., P. O. Box 1966, stock broker, member of the Colorado Mining Stock Exchange of Denver.	Pueblo	CHAS. E. CHERRINGTON , 347 N. Third St., mining stock broker, mines and mining stocks bought and sold. Special attention paid to agents from non-residents.	
"	"	Robert Ballings & Co., 616 Windsor Hotel Block, etc. brokers.			
"	"	CHAS. BLEIBEL , 1645 Curtis St., Room 11, broker, mining stocks, bonds, etc.			
"	"	CEO. WIRT BOWMAN & CO. , Jackson Bldg., mining promoters and reporters, proprietors of Colorado Concentrating Co., and managers of the Grand Mine Mining Co.			
"	"	Robt. H. Buck , 310 Mining Exchange, investments.			

IDAHO

TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
		Helena	Lewis and Clarke Samuel K. Davis, 26, 27 Bailey Block, broker.
Wallace	Shoshone	"	" W. G. Gooding, 12 Main st., broker.
"	"	Missoula	Geo. F. Brooks, Higgins Block, broker.

ILLINOIS

Chicago	Cook	SIDNEY BOCUE & CO., 59 Dearborn st., brokers, land in large bodies, mines and mining lands, Missouri and Arkansas made a specialty.	Sierra	JAMES P. BLAIN, mining, feed estate and general broker.
"	"	Ferry & Wright, 175 Dearborn st., brokers.	"	Edwin F. Holmes, broker.
"	"	HAMILTON, LOWE & CO. (incorporated), Chamber Commerce Bldg., precious metals and ores. (See adv., page 14.)	Socorro	Cheves & Dougherty, mine brokers.
"	"	KLING & STRICKLER, 123 La Salle st., brokers, promoters for the sale of mining properties, companies organized and capital secured.	"	H. P. Dickinson, broker and assayer.
"	"	EDWARD B. STILES, P. O. Box 1124, broker, mining stocks and western investments. Correspondence solicited.		

MICHIGAN

Detroit	Wayne	LEE BURT, 1004 Hammond Bldg., purchase and sell lands, stocks, etc. Specialty, iron. (See adv., page 546.)		
"	"	J. V. Campbell & Co., 27 Larned st. W., bankers and brokers.		

MINNESOTA

Duluth	St. Louis	JAMES A. BOCCS, 300 Chamber of Commerce Bldg., banker and broker. (See adv., page 14.)	Cleveland	Cuyahoga	JOHN J. DATE, Room 219 Ferry-Tayne Bldg., stock and bond broker; Lake Superior iron stock a specialty.
"	"	Duluth Stock Exchange, 325, 327 W. Superior st.	"	"	WM. J. HILANDS, 108 Superior st., investment securities, mines and railroads.
"	"	FRANKLIN PAINE & CO., 44 Board of Trade, brokers. Correspondence solicited.	"	"	CHAS. H. POTTER & CO., 104 Superior st., stocks and mining investments.
"	"	Grant Wyatt and Palladio Bldg., broker.			
Minneapolis	Hennepin	J. Russell Jones, 427 Nicolet av., Room 7	Fosteria	Seneca	C. C. & E. J. BARND, S. E. cor. Wood and Chicker sts., brokers, organizers and promoters mines, factories, etc.
"	"	Manneapolis Mining & Stock Exchange.			
"	"	FRANKLIN PAINE & CO., 11 Chamber of Commerce, brokers. Correspondence solicited.			

MISSOURI

Kansas City	Jackson	P. W. KLINE & CO., 409 Keith Bldg., brokers.	Philadelphia	Philadelphia	J. Wesley Pullman, 238 S. Third st., broker.
"	"	J. M. O'Bleins, Room 420 American Bank Bldg.	Pittsburgh	Allegheny	C. M. CARRISON, 615 and 616 Lewis Block, copper ores, maltes, iron and steel. (See adv., page 10.)
"	"		"	"	ROBINSON & ORR, 419 Wood st., brokers, iron mining stocks.

MONTANA

Butte	Silver Bow	J. CHAUVIN, broker in mines and mining stock. (See adv., page 556.)	Charleston	Charleston	Paul C. Trenholm, broker in phosphate rock, etc.
Butte	Silver Bow	B. C. W. EVANS, 16 N. Main st., broker, dealer in Montana mining properties, twenty years' experience. Reference, First National Bank of Butte.			

SOUTH CAROLINA

SOUTH DAKOTA

Deadwood	Lawrence	John Baggaley, mining broker.
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TENNESSEE

TOWN AND COUNTY	NAME
Chattanooga Hamilton	CEO. W. WARE , 163 W. Ninth st., broker; mineral properties strictly first-class.

TEXAS

El Paso, ... El Paso	J. D. Groesbeck , 701 N. Stanton st., broker; purchasing agent El Paso Smelting Works.
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UTAH

Salt Lake City Salt Lake	John J. Cushing , Commercial Block, broker.
" "	J. C. DAVIS , 25 Central Block, P. O. Box 1074, mining stock broker and dealer in securities of every description; dividend-paying stocks a specialty. Refer, with permission, to McCormick & Co., bankers.
" "	JAMES A. POLLOCK , 77, 78 Commercial Block, bond and stock broker; mining investments.
" "	Timney & Schen , 26, 29 Commercial Block, brokers.
" "	J. H. Watts , 47 W. Second South st., broker.

VIRGINIA

Fredericksburg Spotsylvania	I. G. Johnson , mining broker.
Newbern Pulaski	Edward Shelley , broker and mineral expert.

WASHINGTON

Durham King	Pacific Investment Co.
Seattle King	J. M. & F. W. Whitmans , Room 620 Bailey Bldg., brokers.
Spokane Spokane	JOHN C. FISHER , Mining Exchange, broker.
" "	Snow & Armstrong , 106 Riverside av., brokers.

WISCONSIN

Milwaukee Milwaukee	CASE & PECK , 19 New Insurance Bldg., brokers; Lake Superior mining properties, mineral and timber lands.
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NEW BRUNSWICK

MillertonNorthumberland	John J. Miller , mine dealer.
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ONTARIO

Rat Portage Algonia	John Kerr Bryden , broker.
Sudbury Algonia	Jas. B. Hammond , cedar st., dealer in nickel properties.
Toronto York	H. A. Hilyard , 100 King st. W., broker.
" "	T. D. LEDYARD , 57 Colborne st., Room 4, dealer in mines and mineral lands. Specialties, asbestos, mica, bessenet iron ores, nickel. English companies organized. Col. correspondence solicited.
" "	C. A. M. Temple , 47 St. George st.

QUEBEC

Montreal Montreal	O. M. Harris , 269, 214 Commissioners st., broker.
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MEXICO

Mexico Mexico	Pedro Lavay , 66 T. Eitz, 14 Calle 50 Cadena, broker.
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ENGLAND

London Madras	JULIUS MATTON , 7 St. Mary ave., L. C. India merchant and agent for Mescherich Lead Mining Co., Germany; Bousberg Zinc Mining Co., Belgium; Germania Open for other agencies in metal.
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MINING AND COMMERCIAL ATTORNEYS

ALABAMA

TOWN AND COUNTY	NAME
Edwardsville	Cleburne J. B. Merrill, attorney.
Fort Payne	De Kalb Norfolk & Carey, attorneys.
Mobile	Mobile PILLANS, TORREY & HANAW, 71 St. Francis St., Rooms 5 and 6, attorneys at law, practice in all the courts, state and federal. Reference: Any bank or reputable business house in Mobile. Compilers of Alabama Laws for The Mining Directory. (See card, page 18.)

ALASKA

Juneau	JOHN C. HEID, attorney at law. Special attention given mining and commercial laws; titles examined, also general practice.
"	" J. F. MALONY, attorney at law, mining titles examined and reported upon.

ARIZONA

Florence	Pima James Reymert, Jr., attorney at law.
Tombstone	Cochise William Herring, Tenthout st., near Fourth, attorney and counselor at law.
Tucson	Pima FRANCIS J. HENEY, attorney at law, mining and commercial business given special attention; collections promptly attended to. Compiler of laws of Arizona for The Mining Directory. (See card, page 18.)

ARKANSAS

Greenwood	Sebastian R. T. Powell, lawyer.
Little Rock	Pulaski C. B. MOORE, attorney at law. Compiler of Arkansas law for The Mining Directory. Commercial and mining business a specialty; collections receive prompt attention. (See card, page 18.)

CALIFORNIA

Auburn	Placer Ben F. Labor, Rooms 5, 6 and 7 Stevens Block, mining attorney.
"	" P. P. Tuttle, attorney at law.
Crescent City	Del Norte L. F. COOPER, 620 H St., attorney, lands, mines and redwood timber.
Grass Valley	Nevada A. Barrows, mining lawyer and notary public.
"	" Kirt & Bowman, Main st., attorneys and notaries.
Los Angeles	Los Angeles Geo. B. Griffin, 714 Downey av., attorney and counselor at law.
"	" WELLS, MONROE & LEE, Rooms 11 to 15 Baker Block, attorneys for Union Pacific Ry., National Bank of California, etc.; commercial and mining law specialties.
Matysville	Yuba J. H. Craddock, Ellis Block, attorney and counselor at law.
Nevada City	Nevada Thomas S. Ford, attorney at law.

TOWN AND COUNTY

NAME

Nevada City	Nevada Fred Searis, opp. court-house, attorney at law.
Oakland	Alameda Geo. E. DeGolin, 957 Broadway, attorney at law.
Placerville	El Dorado Irwin & Irwin, attorneys at law.
"	" Chas. A. Swisher, attorney at law.
San Bernardino	San Bernardino Harris & Gregg, attorneys at law.
"	" Chas. J. Perkins, attorney at law.
San Francisco	San Francisco Dorn & Dorn, 406 Pine St., attorneys and counselors at law.
"	" CEO. A. JOHNSON, 11 Sansome St., attorney and counselor at law. Ex-attorney-general of California. Special attention given to the law of corporations, commercial law, collections and settlements of decedents' estates. References: The Mining Directory, National Legal Bureau, Eppan, McKillop & Co., J. R. Martindale and Wm. F. Wernise & Co., Chicago, Ill.; Hubbard's Legal Directory and Snow, Church & Co., New York City; Sharp & Altemari, Philadelphia, Pa.; Shriver, Bartlett & Co., Baltimore, Md.; J. A. Grant & Co., a member, Ohio. Northwest-ern collection agency, Milwaukee, Wis.; Hon. John P. Dunn, ex-controller of state, San Francisco; and Hon. F. P. Colgan, controller of state, Sacramento, Cal. (See card, page 18.)

COLORADO

Alamosa	Conchos Z. L. Brown, attorney at law.
Amethyst	Saguache Rocket, Spurgeon & Cassidy, P. O. Box 547, attorneys.
"	" Thomas & Thomas, P. O. Box 64, lawyers.
Aspen	Pitkin Charles W. Franklin, attorney at law.
"	" Aaron Hems, 5, 6 and 7 Hyman Block, attorney at law.
Boulder	Boulder Guy D. Duncan, Room 5 National State Bank Block, counselor at law.
Buena Vista	Chaffee G. K. Bartenstein, attorney at law.
Central City	Golden Chase Withrow, attorney at law.
Colorado Springs	El Paso Colburn & Dindley, Nevada av., attorneys.
"	" Harris & Kinsley, 2 and 3 Midland Block, attorneys at law.
"	" J. E. MCINTYRE, 104 E. Pike's Peak av., attorney at law, mining, commercial and realty law.
Cripple Creek	El Paso Charles H. Adams, attorney at law.
"	" Wm. Alexander, lawyer.
Crystal	Gunnison C. J. S. Hoover, attorney at law.
Denver	Arapahoe BARTLES & BLOOD, 507 Gas, Publishers, Bldg., attorneys at law, mining, oil, stock and collections to receive prompt attention.
"	" Willis B. Herr, 509 and 510 Equitable Bldg., attorney at law.

TOWN AND COUNTY		NAME	FLORIDA	
Deerfoot	Arapahoe	MANLY & MOORE , 815-817 Ernest & Crammer Bldg., attorneys at law; real estate, mining and corporation law; counsel for numerous savings, loan, investment and mining companies; collection department. Depositions carefully taken. Compilers of Colorado law for The Mining Directory. (See card, page 19.)	Town and County	NAME
"	"	W. E. Richards, 615 Ernest & Crammer Bldg., attorney at law.	Bartow	Polk John L. Albritton, cor. Main st. and Fort Meade av., attorney at law.
"	"	A. W. RUCKER , 501 and 502 Mining Exchange Bldg., attorney at law; practice in mining law exclusively.	Gainesville	Alachua HORATIO DAVIS , attorney at law; practices in all the courts, state and federal; special attention given corporation and mining laws; prompt returns on collections. Reference, First National Bank of Gainesville. (See card, page 18.)
"	"	S. D. Walling, Tabor Bldg., lawyer.	Jacksonville	Duval A. W. Cockrell & Son, 29 E. Forsyth st., attorneys at law.
"	"	T. J. Drum, Bank Bldg., mining attorney.	Leesburg	Lake J. B. Gaines, Main st., attorney.
Durango	La Plata	M. J. McCloskey, attorney at law.	Ocala	Marion John H. Ruchell, Merchants' National Bank Bldg., attorney at law.
Fort Collins	Larimer	Frank J. Amis, attorney at law.		
Fulford	Eagle	J. I. Sampson, mining attorney.		
Georgetown	Clear Creek	C. T. Roberts, mining attorney.		
Glenwood Springs	Garfield	John T. Shumate, 104 Bennet av., attorney at law.		
Gunnison	Gunnison	Alexander Gullett, attorney at law.		
"	"	Dexter T. Sapp, mining lawyer.		
Montrose	Montrose	Sherman & Twitchell, mining and general attorneys.		
New Castle	Garfield	Arthur L. Beardsley, mining and commercial attorney.		
Ouray	Ouray	Story & Stevens, attorneys at law.		
Pueblo	Pueblo	John A. Collins, 321 1/2 Santa Fe av., attorney at law.		
"	"	J. E. River, Graham-Wescott Bldg., attorney at law.		
Red Cliff	Eagle	A. R. Brown, attorney.		
"	"	S. N. Hoover, attorney at law.		
"	"	Chas. K. Phillips, mining and commercial attorney.		
Silver Cliff	Custer	McNeely & Watkins, attorneys.		
Silverton	San Juan	C. M. Frazier, cor. Twelfth and Rose sts., attorney.		
Telluride	San Miguel	W. H. Gabbert, attorney at law.		
Walsenburg	Huerfano	R. R. Ross, attorney at law.		

GEORGIA

Blairsville	Union	J. A. Butt, attorney at law.
La Fayette	Walker	Copeland & Jackson, Main st., attorneys.

IDAHO

Salmon City	Lemhi	Ralph P. Quarles, attorney at law.
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ILLINOIS

Chicago	Cook	BALL & BARRETT , Suite 1501, 1504 Unity Bldg., 79 Dearborn st., attorneys and counselors at law.
"	"	DAYTON, POOLE & BROWN , 215 Dearborn st., patent solicitors. (See card, page 12.)
"	"	ROSS & TODD , 185 Dearborn st., Rooms 13 and 14, attorneys and counselors at law. (See card, page 529.)
"	"	St. John & Merrem, 79 Dearborn st., 104 Unity Bldg., attorneys and counselors.
"	"	CLARK VARNUM , Suite 414 Chamber of Commerce Bldg., attorney at law. Especial attention given to important cases and non-resident business. Has as permanent correspondents and associate counsel a leading member of the bar in every city of importance in the United States. References given whenever and wherever required. (See card, page 528.)
Deming	Vernon	Edwin Winter, 414 Franklin st., attorney at law.
Joliet	Will	Higgins & Akin, Room 21 Court House, attorneys at law.
Springfield	Sangamon	Patton & Hamilton, 419 and 421 E. Adams st., attorneys at law.

INDIANA

Williamsport	Warren	W. P. Rhodes, attorney at law.
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IOWA

Centerville	Appanoose	T. M. Fee, attorney at law.
Des Moines	Polk	W. G. Harrison, Clapp Block, attorney at law.
Oskaloosa	Mahaska	J. F. & Wm. R. Lacey, attorneys.

DISTRICT OF COLUMBIA

Washington	D. C.	STORY B. LADD , Loan & Trust Bldg., attorney, American and foreign patents.
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TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
What Cheer	Keokuk C. M. BROWN , 1 and 2 Savings Bank Bldg., attorney at law. Member of American Attorneys' Association. Compiler of Iowa laws for The Mining Directory. Mining and commercial law a specialty; collections promptly attended to. (See card, page 18.)	Greenfield	Franklin Frederick L. Greene, cor. Main and Federal sts., attorney at law.
		Pittsfield	Berkshire Pingree James Jr. & Burke, 25 Bank Row, attorneys at law.

MICHIGAN

TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
	KANSAS	Jackson	Jackson Wilson & Cobb, attorneys at law.
Garard	Crawford Fuller & Randolph (see Pittsburg).	Norway	Dickinson R. C. FLANNIGAN , attorney at law. Compiler of laws of Michigan for The Mining Directory. Corporation, mining and commercial law a specialty.
Hutchinson	Reno Whiteside & Gleason, 24 S. Main st., attorneys at law.		
Lyons	Rice Jean F. Webb, mining attorney.		
Ness City	Ness Geo. S. Redd, attorney at law.		
Pittsburg	Crawford FULLER & RANDOLPH , special attention given mining and commercial litigation and collections. Resident attorneys. A. T. & S. F. R. R. C. & P. Coal & Mining Co. S. L. & S. F. R. R. First National Bank, Garard. Pittsburg & Midway Coal Co. Franklin Coal Co. (See card, page 19.)	Duluth	St. Louis A. E. McMANUS , Room 260, Palladio Bldg., attorney at law, mining and commercial law a specialty, collections promptly attended to. Reference, any bank, or business house in Duluth. (See card, page 528.)
Pleasanton	Linn W. W. McInnough, attorney at law.		

MINNESOTA

TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
	KENTUCKY	St. Paul	Kansey William Tonkie, 25 and 26 National German American Bank, attorney.
Louisville	Jebertson W. O. HARRIS , found at Bull Block, attorney at law. Late Judge of Louisville law and equity court. Prompt attention given all commercial business intrusted to my care. (See card, page 19.)	Minneapolis	Hennepin Oles B. Holmes, 615 Guaranty Loan Bldg., attorneys.
Whitesburg	Letcher D. D. Fields, attorney at law.	St. Paul	William Tonkie, 25 and 26 National German American Bank, attorney.

KENTUCKY

TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
	LOUISIANA	Jackson	Hinds BRAME & ALEXANDER , attorneys at law, reporters of the supreme court of Mississippi, and attorneys for the Capital State Bank. Special attention given all commercial business intrusted to us. Prompt returns on collections. (See card, page 528.)
New Orleans	Orleans FRANK L. RICHARDSON , 74 Camp St., Morris Bldg., attorney at law. Commercial litigation and collections a specialty. (See card, p. 19.)		

LOUISIANA

TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
	MAINE		
Portland	Cumberland Frank & Larrabee, 185 Middle St., attorneys and counselors at law.		

MAINE

TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
	MISSISSIPPI		
Madison	Washington C. B. DONWORTH , Donworth Bldg., Main st., attorney and counselor at law. Commercial litigation a specialty. Collections receive prompt attention. (See card, page 19.)	Ash Grove	Greene Harvey Murray, attorney at law.
Portland	Cumberland Frank & Larrabee, 185 Middle St., attorneys and counselors at law.	Vero	Lawrence H. H. Bloss, attorney at law.
		Carthage	Jasper Joseph Fontaine, 1 Main st., attorney at law.
		Carthage	Jasper H. L. Harrison, 508 Clinton st., attorney at law.
			Harrison & Harrison, S. E. corner of Square, attorneys.
		Fredericktown	Madison B. B. Calhoun, attorney at law.
		Joplin	Jasper JAMES P. MEAD , S. W. cor. Third and Main sts., attorney at law and notary public.
			Chas. H. Montgomery, 217 Main st., attorney.
			A. T. Spencer, Bell Block, attorney at law.
		Kansas City	Jackson Thos. C. Brown, 318 S. 20 New York Life Bldg., attorney.
			Hall & Van Valkenburgh, Rooms 829, 830 and 831 New York Life Insurance Bldg., attorneys.
			Richard H. Stewart, 766 Wall st., attorney.

MISSOURI

TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
	MARYLAND		
Baltimore	Baltimore ELLIOTT & HOFFMAN , Daily Record Bldg., cor. Fayette and St. Paul sts., attorneys at law. Special attention given commercial, real estate and mining litigation. (See card, page 19.)		

MARYLAND

TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
	MASSACHUSETTS		
Boston	Suffolk HERBERT L. BAKER , John Hancock Bldg., 178 Devonshire st., and 35 Federal st., attorney at law, gives special attention to commercial and mining litigation. (See card, page 19.)		
	WALTER L. CHURCH , 9 Franklin st., mining and commercial attorney, six years' practical experience in Colorado and Nevada mines.		

MASSACHUSETTS

TOWN AND COUNTY		NAME	NEVADA	
Kansas City	Jackson	TRABER & McNEIL , Rooms 307, 208 and 309 Long Bros. Bldg., attorneys at law, (notary in office). Special attention given to mining and all kinds of commercial litigation. Prompt returns assumed on collections. (See card, page 528.)	Town and County	NAME
St. Joseph	Buchanan	JOHN DONIPHAN , 413 Francis st., attorney and mining law, pres. St. Joseph & Crocker Creek Mining Co., and Danphien Tin Co.; practice in state and United States courts.	Battle Mountain	Lander JAMES F. DENNIS , attorney at law.
Springfield	Greene	John W. Jump, Rooms 2 and 3 Green County Bank Bldg., attorney.	Elko	Elko E. L. Farrington, attorney at law.
Stockville	Crawford	E. A. Pinnell, Main st., opp. courthouse, attorney, notary public and abstractor.	Ely	White Pine Frank X. Murphy, attorney at law.
Wells City	Jasper	Lucius L. Wittich, attorney.	Pioche	Lincoln GEORGE S. SAWYER , Lacombe st., Lynch's Block, attorney at law; special attention given to business of mining companies; collections promptly attended to; compiler of Nevada laws for The Mining Directory. (See card, page 528.)
West Plains	Howell	L. B. Harris, attorney.	Virginia City	Storey W. E. F. DEAL , Bank of California Bldg., attorney at law. Twenty-nine years' experience in mining litigation and mining titles. References, Bank of California and Nevada Bank of San Francisco.

MONTANA

Billings	Yellowstone	O. F. Goddard, attorney and counselor at law.
Bozeman	Gallatin	Luce & Luce, commercial attorneys.
Butte	Silver Bow	E. H. Irvine, Son & Co., 21 E. Granite st., attorneys.
"	"	F. T. McBride, 122 N. Main st., attorney at law.

Castle	Meagher	Miller & Peavey, mining attorneys.
Deer Lodge	Deer Lodge	H. R. Whitehill, attorney at law.
Dillon	Beaver Head	Emmett Callahan, 150 Main st., attorney at law.

Great Falls	Cascade	Cooper & Praeger, stand 84 Tod Bldg., attorneys at law.
"	"	H. A. Day, Dunn Block, Central ave., mining and commercial attorney.

Helena	Lewis and Clarke	S. A. Balhiet, 181 S. Main st., attorney.
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"	"	Alex. C. Botkin, 169, 159 and 111 Granite Block, mining and commercial attorney.
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"	"	DAVID B. CARPENTER , Room 10 Bailey Block, attorney at law, general practice in corporation, mining, real estate and commercial law. Special attention given to mining litigation, collections, etc. (See card, page 528.)
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"	"	J. A. Carter, attorney at law.
"	"	H. R. Causly, Granite Block, attorney at law.

"	"	MILES J. CAVANAUGH , Room 9 Bailey Block, mining and commercial attorney.
"	"	John B. Clayberg, cor. Main and Edwards, attorney at law.

"	"	A. M. Clements, attorney at law.
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Bozonsd	Meagher	J. L. Kimorse, Broadway, attorney.
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White Sulphur Springs	Meagher	Thompson & Maddox, attorneys at law.
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NEBRASKA

Lincoln	Lancaster	STEVENS, LOVE & COCHRAN , Newman Block, attorneys at law, general law, equity and corporation practice, with special attention to commercial business. Refer to any bank in Lincoln; James H. Walker & Co., Chicago; Hubbard, Spencer, Bartlett & Co., Chicago; Continental Building & Loan Assn., Kansas City; Omaha Oil & Paint Co., Omaha. First-class reference will be furnished in any large city in the United States. (See card, page 528.)
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NEW HAMPSHIRE

Nashua	Hillsboro	H. A. CUTTER , 76 Main st., attorney at law (commissioner for Massachusetts); commercial and real estate law a specialty. Practice in all courts. Collections receive prompt attention. (See card, page 529.)
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NEW JERSEY

Trenton	Mercer	LOWTHORP & OLIPHANT , 132 E. State st., attorney and counselors at law, corporation and commercial law, practice in state and federal courts. (See card, page 529.)
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NEW MEXICO

Albuquerque	Bernalillo	Warren, Ferguson & Brarer, First National Bank Bldg., attorneys.
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Cerrillos	Santa Fe	Chas. F. Easley, attorney at law.
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Deming	Grant	S. M. ASHENFELTER , Wormser Block, Silver av., attorney at law. Special attention given to mining, commercial and real estate litigation.
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Hillsboro	Serra	A. B. Elliott, attorney at law.
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"	"	F. W. Parker, attorney at law.
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Las Cruces	Doña Ana	S. B. Newcomb, attorney at law.
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Silver City	Grant	JAMES S. FIELDER , attorney at law. Reference, The Silver City National Bank. Mining law a specialty.
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"	"	H. L. Pickett, attorney at law.
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"	"	John M. Wright, attorney at law.
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Socorro	Socorro	Cheves & Dougherty, Abryta Block, attorneys at law.
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"	"	James G. Fitch, attorney at law.
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"	"	H. B. Hamilton, attorney at law.
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White Oaks	Lincoln	R. H. Dye, attorney at law.
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NEW YORK

Gouverneur	St. Lawrence	Conger & Orvis, attorneys at law.
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Granville	Washington	Jurden E. Seeley, Main st., attorney and counselor at law.
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New York	New York	J. F. Crosby, 54 Exchange pl., attorney at law.
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TOWN AND COUNTY

NAME

New York	New York	HASTINGS & CLEASON , 265 Broadway, attorneys at law. Commercial and mining litigation specialties. Prompt attention given collections. (See card, page 529.)
"	"	A. P. Smith, 261 Broadway, attorney at law.

NORTH CAROLINA

High Point	Guilford	Edwin D. Steele, attorney at law.
Morgantown	Burke	M. Silver, attorney at law.
Salisbury	Rowan	R. Lee Wright, Legal row, attorney at law.
"	"	Lee S. Overman, attorney at law.
Webster	Jackson	WALTER E. MOORE , attorney at law, prompt returns on collections, mining and commercial law a specialty. (See card, page 529.)

NORTH DAKOTA

Fargo	Cass	SPALDING & PHELPS , attorneys and counselors at law, practice in all the courts, state and federal, commercial and real estate cases a specialty, collections promptly attended to. (See card, page 529.)
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OHIO

Ashland	Ashland	Ryan Stilwell, 92 Main st., attorney at law.
Bellaire	Belmont	Gallagher & Woodbridge, over post office, attorneys at law.
Cleveland	Cuyahoga	ROBERT E. McKISSON , Mercein Bank Bldg., attorney and counsellor at law, corporation and commercial law, estates settled, prompt personal attention given to legal collections, attorney for The Dryoid Safe & Lock Co., The Ohio Heating & Plumbing Mfg. Co., The Cleveland Window Glass Co., The Fairbanks-Morse Co., H. W. Hubbard, Esq., and Henry Koebel, Esq., etc., etc. References: The Central National Bank, the Merchants' Banking & Storage Co., the Euclid Avenue National Bank and the Cleveland National Bank. Special references whenever desired. Depositions taken. Notary public in office. (See card, page 529.)
Columbus	Franklin	FINCKEL & FINCKEL , Room 61, Wesley Bldg., attorneys, patents and patent litigation, special attention given to mining inventions.
Easton	Scheneca	CHAS. C. BARND , S. E. cor. Wood and rock streets, attorney specialty, patents and royalties.
New Lisbon	Columbiana	N. B. Billingsley, attorney at law.
"	"	Conrad Hume, E. Walnut St., attorney at law.

OKLAHOMA

Guthrie	Logan	WILLIAM BLINCOE , attorney at law, special attention given to commercial and real estate law, do a general practice. (See card page 529.)
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OREGON

TOWN AND COUNTY

NAME

Baker City	Baker	Frank L. Moore, attorney at law.
"	"	L. M. Robinson, Main st., mining attorney.
Grant's Pass	Josephine	ROBERT C. SMITH , First National Bank Bldg., attorney at law, mining and commercial litigation a specialty, collections promptly attended to. (See card, page 530.)
Jacksonville	Jackson	C. W. Kahler, California st., attorney at law.
Portland	Multnomah	G. O. Holman, 4 Washington st., Washington Bldg., attorney at law.
"	"	Zera Snow, Concord Bldg., attorney at law.

PENNSYLVANIA

Allentown	Lehigh	Samuel J. Kistler, attorney at law.
Bedford	Bedford	John M. Reynolds, attorney at law.
Bethlehem	Northampton	J. R. Kenner, Globe Bldg., Main st., attorney at law and notary public.
Cherfield	Cherfield	Oscar Mitchell, Market st., attorney at law.
Easton	Northampton	N. D. Chase, 57 Centre Square, attorney at law.
March Creek	Carbon	Freyman & Heydt, 76 Broadway, attorneys at law.
Pittsburg	Allegheny	HUDSON & McCUE , 90 Diamond st., attorneys at law, collections, corporation law, mining, etc.
"	"	Chas. C. McEvann, 103 Grant st., attorney at law.
"	"	M. H. Stevenson, 170 Fourth av., attorney at law.
Pittston	Truitt	Geo. S. Fergus, cor. Main and Walnut sts., attorney at law.
Pottsville	Schuylkill	Torgans & Farquhar, 108 S. Centre st., attorney at law.
"	"	Edmund D. Smith, 113 S. Centre st., attorney at law.
Reading	Berks	Emmitt & Ruhl, 54 Washington st., attorneys at law.
Scranton	Lackawanna	Chas. F. Hawley, 211 Wyoming av., attorney at law.
"	"	Charles H. Welles, 118 Wyoming av., attorney at law.
Uniontown	Fayette	Roy & Umbel, 12 E. Main st., attorney at law.
"	"	GEORGE M. HOSACK , 12 E. Main st., attorney at law, practice in all courts.
Wilkes-Barre	Lycoming	SIDNEY R. MINER , 212 S. Franklin st., attorney at law, and notary public. Prompt attention given to all legal business. Titles examined, collect ops. made. References: Washington National Bank, Wilkes-Barre. (See card, page 530.)
"	"	Henry W. Palmer, 9 Franklin st., attorney.

SOUTH CAROLINA

Beaufort	Beaufort	ELLIOTT & TOWNSEND , Bay st., attorneys at law, and commercial law, specialty. Prompt attention 24 hrs. collect ops. made. References: Wilmington National Bank, Wilmington. (See card, page 530.)
Spartanburg	Starkland	Nichols & Moore, Main st., attorneys at law.

SOUTH DAKOTA

TOWN AND COUNTY	NAME
Deadwood, Lawrence	MARTIN & MASON (Eben W. Martin, Norman T. Mason), attorneys at law; special attention given mining litigation. (See card, page 530.)
" "	Moody & Washburn , attorneys at law.
Hermosa, Custer	C. J. Patton, 11 Vilas st., attorney.
Hot Springs, Fall River	Loomis S. Cull, Chicago av., attorney at law.
Rapid City, Pennington	Wood & Buell , Rooms 4, 5 and 6 Lakota Block, mining attorneys.

TENNESSEE

Centerville, Hickman	W. P. Clarke, attorney at law.
Knoxville, Knox	Wells & McClung, 148 Gay st., attorneys at law.
Nashville, Davidson	BURCH & WALLER , Rooms 31-32 Coles Bldg., attorneys at law, practice in all the courts, state and federal, commercial litigation a specialty. Compilers of Tennessee laws for The Mining Directory. (See card, page 530.)
	SMITH & DICKINSON , 200 N. Cherry st., attorneys and counselors at law, do a general practice.
Rogersville, Hawkins	Smith & Chestnutt, attorneys at law.

TEXAS

El Paso, El Paso	N. B. BENDY , 22 El Paso st., attorney at law, practices in all courts, special attention given to land and mining law, negotiates mines and lands in Texas, New Mexico, Arizona and Republic of Mexico, titles to mines and lands examined, mining charters obtained for corporations. (See card, page 530.)
" "	J. F. Crosby, attorney at law.
" "	John Mitchell, 18 Bronson Block, attorney at law.

UTAH

Salt Lake City, Salt Lake	BOOTH, LEE & CRAY , 63-65 Commercial Block, mining corporation, insurance and commercial litigation, will practice in all courts, and before the United States land office and department of the interior, collections promptly attended to. Refer to American National Bank, Commercial National Bank, Petro Mining Co., Salt Lake City, Utah. Other references furnished on application. (See card, page 530.)
	Grant H. Smith, 15 Second South st., mining lawyer.
	H. H. Wenger, 21 and 22 Central Block, mining attorney.

VERMONT

Burlington, Chittenden	J. W. RUSSELL , attorney at law. Special attention given commercial litigation and collections. (See card, page 531.)
Castleton, Rutland	Bromley & Clark, attorneys at law.

VIRGINIA

Amelia Court House, Amelia	H. Meade, attorney at law.
Christiansburg, Montgomery	PHLECAR & JOHNSON , attorneys at law, commercial and mining law a specialty, collections promptly attended to. (See card, page 531.)
Empire, Botetourt	C. H. Vines, commercial and mining attorney.
Fredericksburg, Spotsylvania	J. C. JOHNSON , attorney at law, References: The Bank of Fredericksburg, American Exchange National Bank, New York. Will examine and report on mineral properties and titles in Virginia.
Louisa, Louisa	R. L. Gordon, attorney at law.
Radford, Montgomery	Hoge & Hoge, Briggs Bldg., attorneys at law.
Richmond, Henrico	JAMES LEWIS ANDERSON , 1 and 3 Goddin Hall, cor. Eleventh and Bank sts., attorney at law; prompt attention given mining and commercial cases, collections, etc. (See card, page 531.)

WASHINGTON

Black River Falls, Jackson	Geo. M. Popham, attorney at law, collections.
Everett, Snohomish	N. D. WALLING , attorney at law; mining law a specialty.
Fairhaven, Whatcom	Thomas G. Newman, Mason Block, attorney and counselor at law.
New Whatcom, Whatcom	Black & Leaning, cor. Elk and Holly sts., attorneys at law.
Seattle, King	ANDREW F. BURLEIGH , attorney at law.
Spokane, Spokane	Thomas B. Huggins, Jameson Bldg., attorney at law.
" "	JONES, VOORHEES & STEPHENS , Hyde Block, attorneys at law, practice in all the courts, special attention given to mining and commercial business, collections promptly attended to. (See card, page 531.)
" "	Wills H. Merriam, Rooms 6 and 7 P. O. Block, mining attorney.
" "	Philip Stanford, 19 and 20 First National Bank Bldg., attorney.
Tacoma, Pierce	LEO & JORDAN , Rooms 200 and 212 National Bank of Commerce Bldg., attorneys; practice in all the courts. References: Columbia National Bank, Tacoma. (See card, page 531.)
" "	DR. WILLIS E. EVERETT , 131 E. St. South, mining lawyer.
" "	J. F. Ranage, 1314 Pacific av., mining attorney.
Whatcom, Whatcom	J. C. McFadden, Holly st., attorney at law.

WEST VIRGINIA

Parkersburg, Wood	MERRICK & SMITH , attorneys at law, practices in Wood, Wirt, Ritchie and Pleasants counties in federal courts and court of appeals; corporation, commercial and mining law, collections, real estate litigation and contested claims throughout West Virginia a specialty. References: Second National Bank and Parkersburg National Bank, Parkersburg, W. Va. (See card, page 531.)
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WISCONSIN

TOWN AND COUNTY	NAME
Milwaukee ...Milwaukee	Harold W. Nickerson, Rooms 4 and 5 Mack Block, attorneys.
" " "	Turner & Tindlin, 105 Grand av., attorneys at law.
Racine ...Racine	COOPER & NELSON , H. A. Cooper, Peter Bereng Nelson, attorneys and counselors, notary in office. Compilers of the Wisconsin laws for The Mining Directory and Reference Book. Special and prompt attention given to corporation mining and general commercial litigation in all state and federal courts. References, Racine: Union National Bank, West Shore Lumber Co., Kelley, Weeks & Co. Lumber Co., McAlister Trunk Co., and any other bank or business house in the city. (See card, page 531.)
Shullsburg ...La Fayette	J. B. Simpson, attorney at law.

WYOMING

Laramie ...Albany	Nellis E. Corthell, attorney at law.
Saratoga ...Carbon	J. L. Crawford, attorney at law.

BRITISH COLUMBIA

Kamloops ...Yale	Frederick J. Fenton, 722 St. J., solicitor, notary public.
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MANITOBA

Winnipeg ...Winnipeg	HOUGH & CAMPBELL , McIntyre Bk. Bldg. (East Campbell) or J. J. Sanby, Bldg., barristers, solicitors, general practice. (See card, page 531.)
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NEW BRUNSWICK

Dorchester Westmoreland	EMMERSON & CHANDLER , barristers and attorneys, practice in all the courts of the dominion and province, special attention to conveyance and mining litigation, collections, receive prompt attention (See card, page 531.)
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NOVA SCOTIA

Bridgetown ...Annapolis	JOHN ERVIN , Queen st., barrister, solicitor, notary public, solicitor for Antigonish Iron Co.
Windsor ...Hants	A. E. SHAW , 1, 1-1-1-1 Water st., barrister, solicitor, and notary public, commercial and mining business a specialty.

ONTARIO

TOWN AND COUNTY	NAME
Belleville ...Hastings	Panton & Morden, Bridge st., solicitors, notaries.
Kingston ...Kingston	Joseph Bayden, 35 Clarence st., barrister and solicitor.
" " "	Macdonnell & Mudie, 35 Clarence st., barristers, solicitors, notaries.
Ottawa ...Ottawa	Chrysler & Lewis, 7 Ontario Chambers, attorneys.
" " "	McLEOD STEWART , 44 Metcalfe st., barrister, solicitor, Canadian Authenticated Coal Co., mining law a specialty.
Perth ...Lanark	J. A. Allen, Gore st., barrister, solicitor, notary public.
" " "	Elliot & Rogers, Foster st., barristers, solicitors and conveyancers.
Port Arthur ...Algonia	Thos. A. Gorham, Cumberland st., attorney at law.
Rat Portage ...Algonia	ROBINSON & LANCFORD , barristers, solicitors, notaries, public, etc., mining and commercial business, a specialty, collections, receive immediate attention and prompt returns made. Local solicitors for the Imperial Bank of Canada. (See card, page 531.)
S. B. St. Mary ...Algonia	Hebert & McKay, Queen st., barristers.
Shedden ...Neessing	T. E. T. Neessing, attorney.
Toronto ...Toronto	Charles Henderson, 28 and 30 Toronto st., barrister, solicitor, notary.
" " "	J. A. Wright, 2 Adelaide st. East, barrister, solicitor, notary.
Windsor ...Essex	A. H. Clarke, Medbury Block, barrister at law.

QUEBEC

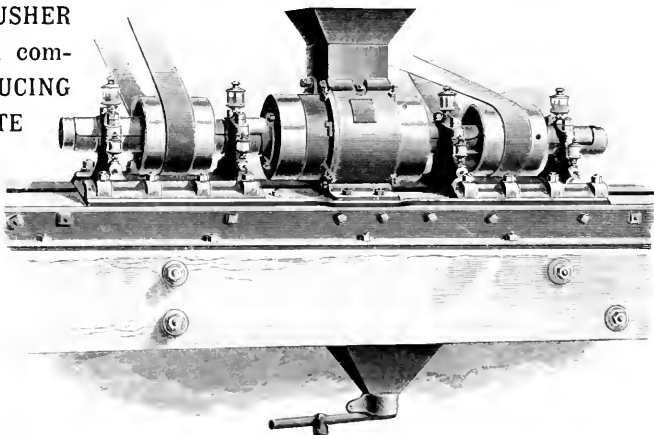
Verde ...Ottawa	Thomas P. Logan, Main st., attorney at law.
Shedden ...St. Charles	White & Goss, M. Bains Block, barristers, advocates.

MEXICO

C. G. M.	Y. SEPULVEDA , Calle No. 7, 100 m. from Mexico, in mining titles, concessions, grants, privileges, and business, special practices before the departments.
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THE STURTEVANT MILL

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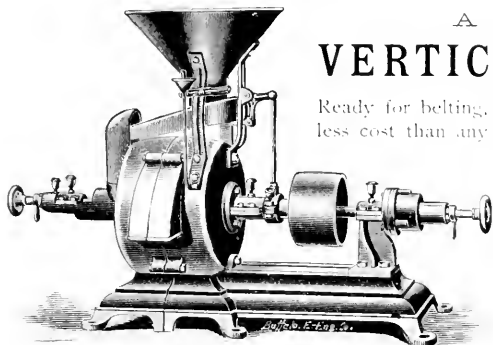
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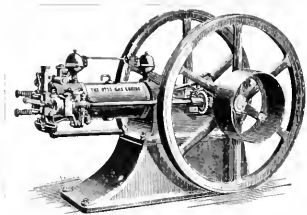
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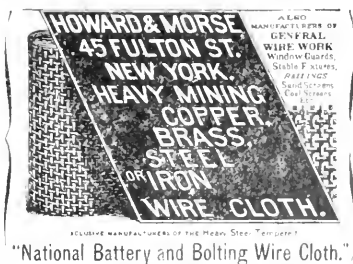
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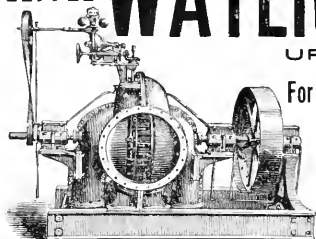
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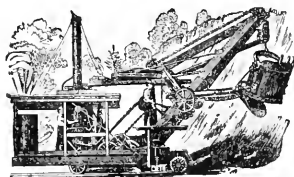
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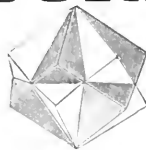
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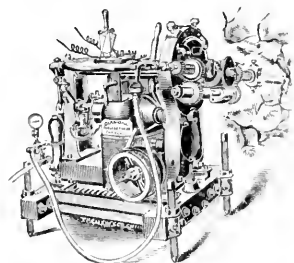
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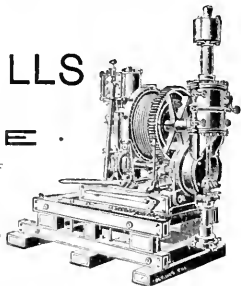
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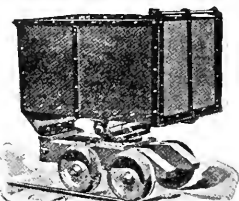
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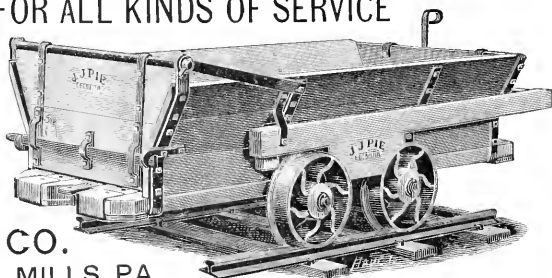
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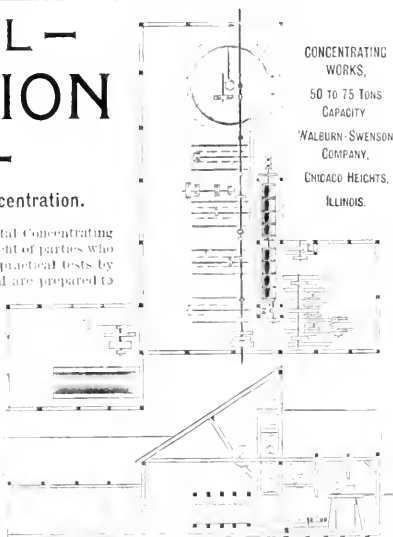
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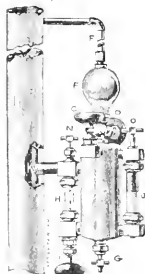
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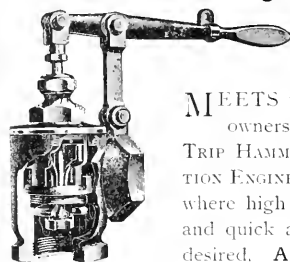
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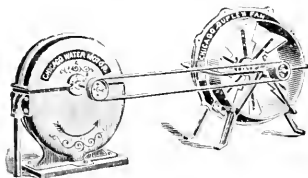
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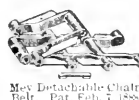
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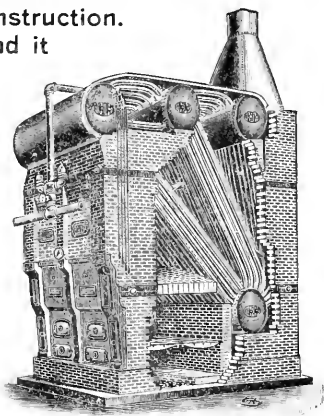
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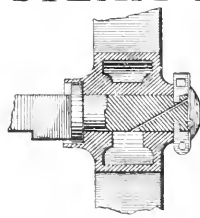


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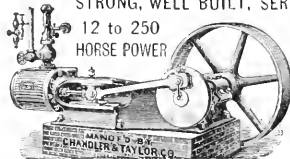
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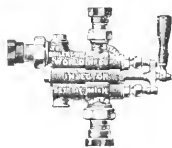
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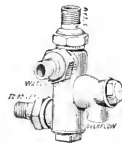
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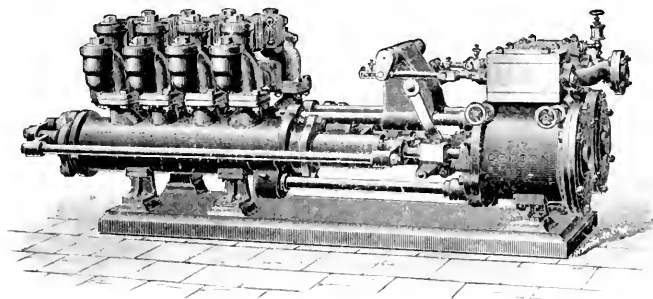
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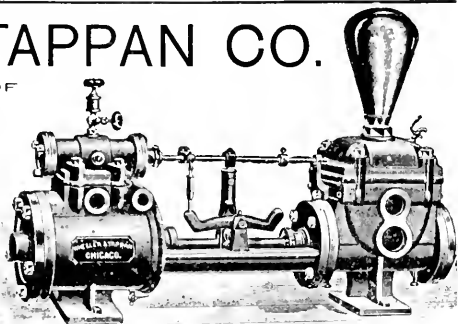
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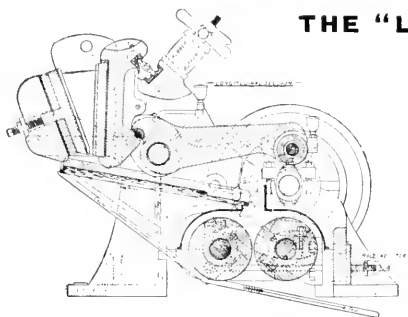
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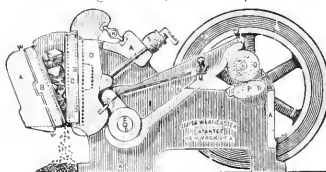
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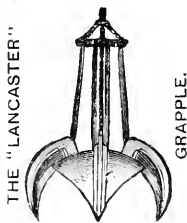
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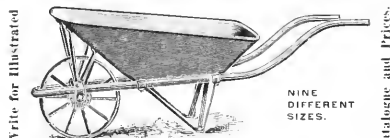
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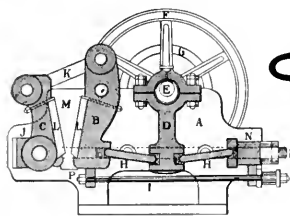
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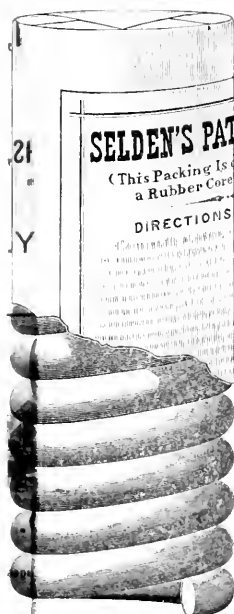
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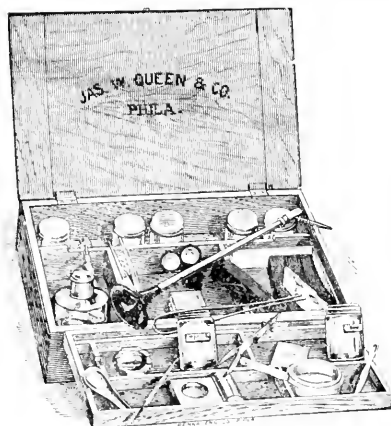
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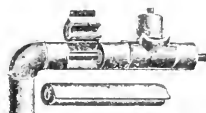
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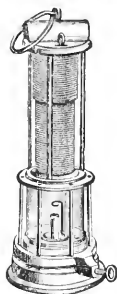
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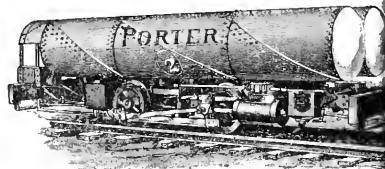
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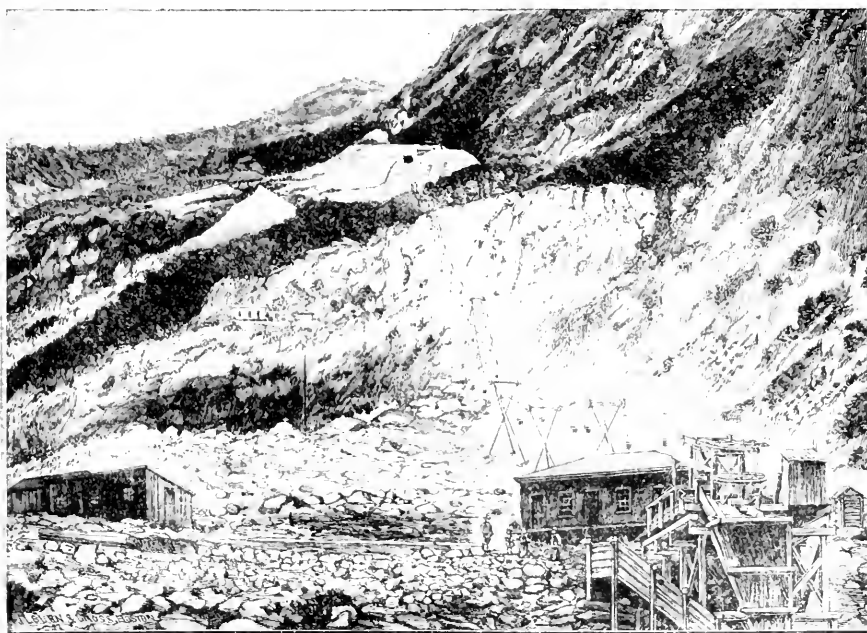
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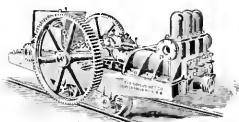
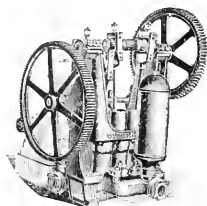
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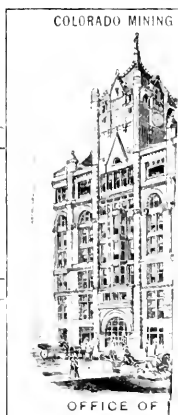
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